

TravelMate 6460/6410 Series

User's Guide

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TravelMate 6460/6410 Series User's Guide
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Record the model number, serial number, purchase date and place of purchase information in the space provided below. The serial number and model number are recorded on the label affixed to your computer. All correspondence concerning your unit should include the serial number, model number and purchase information.

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TravelMate 6460/6410 Series Notebook PC

Model number: _____

Serial number: _____

Date of purchase: _____

Place of purchase: _____

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Information for your safety and comfort

Safety instructions

Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions marked on the product.

Turning the product off before cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

CAUTION for plug as disconnecting device

Observe the following guidelines when connecting and disconnecting power to the power supply unit:

Install the power supply unit before connecting the power cord to the AC power outlet.

Unplug the power cord before removing the power supply unit from the computer.

If the system has multiple sources of power, disconnect power from the system by unplugging all power cords from the power supplies.

CAUTION for Accessibility

Be sure that the power outlet you plug the power cord into is easily accessible and located as close to the equipment operator as possible. When you need to disconnect power to the equipment, be sure to unplug the power cord from the electrical outlet.

CAUTION for Dummy Card of PCMCIA & Express Slot

Your computer shipped with plastic dummies installed in the PCMCIA & Express slot. Dummies protect unused slots from dust, metal object, or other particles. Save the dummy for use when no PCMCIA or Express Card is installed in the slot.

CAUTION for Listening

To protect your hearing, follow these instructions.

- Increase the volume gradually until you can hear clearly and comfortably.
- Do not increase the volume level after your ears have adjusted.
- Do not listen to music at high volumes for extended periods.
- Do not increase the volume to block out noisy surroundings.
- Decrease the volume if you can't hear people speaking near you.

Warnings

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.
- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use it under sporting, exercising, or any vibrating environment which will probably cause unexpected short current or damage rotor devices, HDD, Optical drive, and even exposure risk from lithium battery pack.

Using electrical power

- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.
- If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.
- Do not overload a power outlet, strip or receptacle by plugging in too many devices. The overall system load must not exceed 80% of the branch circuit rating. If power strips are used, the load should not exceed 80% of the power strip's input rating.
- This product's AC adapter is equipped with a three-wire grounded plug. The plug only fits in a grounded power outlet. Make sure the power outlet is properly grounded before inserting the AC adapter plug. Do not insert the plug into a non-grounded power outlet. Contact your electrician for details.



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Warning! The grounding pin is a safety feature. Using a power outlet that is not properly grounded may result in electric shock and/or injury.



Note: The grounding pin also provides good protection from unexpected noise produced by other nearby electrical devices that may interfere with the performance of this product.

- Use the product only with the supplied power supply cord set. If you need to replace the power cord set, make sure that the new power cord meets the following requirements: detachable type, UL listed/CSA certified, type SPT-2, rated 7 A 125 V minimum, VDE approved or its equivalent, 4.6 meters (15 feet) maximum length.

Product servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel when:

- the power cord or plug is damaged, cut or frayed
- liquid was spilled into the product
- the product was exposed to rain or water
- the product has been dropped or the case has been damaged
- the product exhibits a distinct change in performance, indicating a need for service
- the product does not operate normally after following the operating instructions



Note: Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.

Replacing the battery pack

The notebook uses lithium batteries. Replace the battery with the same type as that which came bundled with your product. Use of another battery may present a risk of fire or explosion.



Warning! Batteries may explode if not handled properly. Do not disassemble or dispose of them in fire. Keep them away from children. Follow local regulations when disposing of used batteries.

Telephone line safety

- Disconnect all telephone lines from the equipment when not in use and/or before servicing.
- To avoid the remote risk of electric shock from lightning, do not connect the telephone line to this equipment during lightning or thunderstorms.



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Warning! For safety reasons, do not use non-compliant parts when adding or changing components. Consult your reseller for purchase options.

Additional safety information

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

Operating environment



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Warning! For safety reasons, turn off all wireless or radio transmitting devices when using your laptop under the following conditions. These devices may include, but are not limited to: wireless lan (WLAN), Bluetooth and/or 3G.

Remember to follow any special regulations in force in any area, and always switch off your device when its use is prohibited or when it may cause interference or danger. Use the device only in its normal operating positions. This device meets RF exposure guidelines when used normally, and it and its antenna are positioned at least 1.5 centimeters (5/8 inches) away from your body (refer to the figure below). It should not contain metal and you should position the device the above-stated distance from your body. To successfully transmit data files or messages, this device requires a good quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure that the above separation distance instructions are followed until the transmission is completed. Parts of the device are magnetic. Metallic materials may be attracted to the device, and persons with hearing aids should not hold the device to the ear with the hearing aid. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

Medical devices

Operation of any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF transmissions..

Pacemakers. Pacemaker manufacturers recommend that a minimum separation of 15.3 centimeters (6 inches) be maintained between wireless devices and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should do the following:

- Always keep the device more than 15.3 centimeters (6 inches) from the pacemaker
- Not carry the device near your pacemaker when the device is switched on. If you suspect interference, switch off your device, and move it.

Hearing aids. Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer, or its representative, of your vehicle or any equipment that has been added. Only qualified personnel should service the device, or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed, and the air bag inflates, serious injury could result. Using your device while flying in aircraft is prohibited. Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

Potentially explosive environments

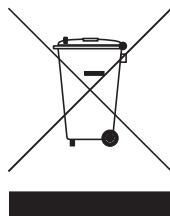
Switch off your device when in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refueling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

Emergency calls

Warning: You cannot make emergency calls through this device. To make an emergency call you shall dial out through your mobile phone or other telephone call system.

Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, visit <http://global.acer.com/about/sustainability.htm>



Mercury advisory

For projectors or electronic products containing an LCD/CRT monitor or display: Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local, state or federal laws. For more information, contact the Electronic Industries Alliance at www.eiae.org. For lamp-specific disposal information, check www.lamprecycle.org.





ENERGY STAR

ENERGY STAR is a government program (public/private partnership) that gives people the power to protect the environment in a cost effective way and without sacrificing quality or product features. Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the US Environmental Protection Agency (EPA) and the US Department of Energy (DOE). In the average home, 75% of all electricity used to power home electronics is consumed while the products are turned off. ENERGY STAR qualified home electronic products in the off position use up to 50% less energy than conventional equipment. More information refers to <http://www.energystar.gov> and <http://www.energystar.gov/powermanagement>.

As an ENERGY STAR partner, Acer Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

This product has been shipped enabled for power management:

- Activate display' Sleep mode within 15 minutes of user inactivity.
- Activate computer's Sleep mode within 30 minutes of user inactivity.
- Wake the computer from Sleep mode by pushing power button.
- More power management settings can be done through Acer ePower Management.

Tips and information for comfortable use

Computer users may complain of eyestrain and headaches after prolonged use. Users are also at risk of physical injury after long hours of working in front of a computer. Long work periods, bad posture, poor work habits, stress, inadequate working conditions, personal health and other factors greatly increase the risk of physical injury.

Incorrect computer usage may lead to carpal tunnel syndrome, tendonitis, tenosynovitis or other musculoskeletal disorders. The following symptoms may appear in the hands, wrists, arms, shoulders, neck or back:

- numbness, or a burning or tingling sensation
- aching, soreness or tenderness
- pain, swelling or throbbing
- stiffness or tightness
- coldness or weakness

If you have these symptoms, or any other recurring or persistent discomfort and/or pain related to computer use, consult a physician immediately and inform your company's health and safety department.

The following section provides tips for more comfortable computer use.

Finding your comfort zone

Find your comfort zone by adjusting the viewing angle of the monitor, using a footrest, or raising your sitting height to achieve maximum comfort. Observe the following tips:

- refrain from staying too long in one fixed posture
- avoid slouching forward and/or leaning backward
- stand up and walk around regularly to remove the strain on your leg muscles
- take short rests to relax your neck and shoulders
- avoid tensing your muscles or shrugging your shoulders
- install the external display, keyboard and mouse properly and within comfortable reach
- if you view your monitor more than your documents, place the display at the center of your desk to minimize neck strain

Taking care of your vision

Long viewing hours, wearing incorrect glasses or contact lenses, glare, excessive room lighting, poorly focused screens, very small typefaces and low-contrast displays could stress your eyes. The following sections provide suggestions on how to reduce eyestrain.

Eyes

- Rest your eyes frequently.
- Give your eyes regular breaks by looking away from the monitor and focusing on a distant point.
- Blink frequently to keep your eyes from drying out.

Display

- Keep your display clean.
- Keep your head at a higher level than the top edge of the display so your eyes point downward when looking at the middle of the display.
- Adjust the display brightness and/or contrast to a comfortable level for enhanced text readability and graphics clarity.
- Eliminate glare and reflections by:
 - placing your display in such a way that the side faces the window or any light source
 - minimizing room light by using drapes, shades or blinds
 - using a task light
 - changing the display's viewing angle
 - using a glare-reduction filter
 - using a display visor, such as a piece of cardboard extended from the display's top front edge
- Avoid adjusting your display to an awkward viewing angle.
- Avoid looking at bright light sources, such as open windows, for extended periods of time.

Developing good work habits

Develop the following work habits to make your computer use more relaxing and productive:

- Take short breaks regularly and often.
- Perform some stretching exercises.
- Breathe fresh air as often as possible.
- Exercise regularly and maintain a healthy body.



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Warning! We do not recommend using the computer on a couch or bed. If this is unavoidable, work for only short periods, take breaks regularly, and do some stretching exercises.



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Note: For more information, please refer to "Regulations and safety notices" on page 94 in the **AcerSystem User's Guide**.

First things first

We would like to thank you for making an Acer notebook your choice for meeting your mobile computing needs.

Your guides


To help you use your Acer notebook, we have designed a set of guides:



First off, the **Just for Starters...** poster helps you get started with setting up your computer.



The printed **User's Guide** introduces you to the basic features and functions of your new computer. For more on how your computer can help you to be more productive, please refer to the **AcerSystem User's Guide**. This guide contains detailed information on such subjects as system utilities, data recovery, expansion options and troubleshooting. In addition it contains warranty information and the general regulations and safety notices for your notebook. It is available in Portable Document Format (PDF) and comes preloaded on your notebook. Follow these steps to access it:

- 1 Click on  **Start, All Programs, AcerSystem.**
- 2 Click on **AcerSystem User's Guide.**

Note: Viewing the file requires Adobe Reader. If Adobe Reader is not installed on your computer, clicking on **AcerSystem User's Guide** will run the Adobe Reader setup program first. Follow the instructions on the screen to complete the installation. For instructions on how to use Adobe Reader, access the **Help and Support** menu.

Basic care and tips for using your computer

Turning your computer on and off

To turn on the computer, simply press and release the power button below the LCD screen beside the easy-launch buttons. See **"Front view" on page 14** for the location of the power button.

To turn the power off, do any of the following:

- Use the Windows shutdown command
Click on **Start, Turn Off Computer**, then click on **Turn Off**.
- Use the power button

You can also shut down the computer by closing the display cover, or by pressing the sleep hotkey **<Fn> + <F4>**.



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Note: If you cannot power off the computer normally, press and hold the power button for more than four seconds to shut down the computer. If you turn off the computer and want to turn it on again, wait at least two seconds before powering up.

Taking care of your computer

Your computer will serve you well if you take care of it.

- Do not expose the computer to direct sunlight. Do not place it near sources of heat, such as a radiator.
- Do not expose the computer to temperatures below 0 °C (32 °F) or above 50 °C (122 °F).
- Do not subject the computer to magnetic fields.
- Do not expose the computer to rain or moisture.
- Do not spill water or any liquid on the computer.
- Do not subject the computer to heavy shock or vibration.
- Do not expose the computer to dust or dirt.
- Never place objects on top of the computer.
- Do not slam the computer display when you close it.
- Never place the computer on uneven surfaces.

Taking care of your AC adapter

Here are some ways to take care of your AC adapter:

- Do not connect the adapter to any other device.
- Do not step on the power cord or place heavy objects on top of it.
Carefully route the power cord and any cables away from foot traffic.
- When unplugging the power cord, do not pull on the cord itself but pull on the plug.
- The total ampere ratings of the equipment plugged in should not exceed the ampere rating of the cord if you are using an extension cord. Also, the total current rating of all equipment plugged into a single wall outlet should not exceed the fuse rating.

Taking care of your battery pack

Here are some ways to take care of your battery pack:

- Use only batteries of the same kind as replacements. Turn the power off before removing or replacing batteries.
- Do not tamper with batteries. Keep them away from children.
- Dispose of used batteries according to local regulations. Recycle if possible.

Cleaning and servicing

When cleaning the computer, follow these steps:

- 1 Turn off the computer and remove the battery pack.
- 2 Disconnect the AC adapter.
- 3 Use a soft, moist cloth. Do not use liquid or aerosol cleaners.

If either of the following occurs:

- the computer has been dropped or the body has been damaged;
- the computer does not operate normally

please refer to **"Frequently asked questions" on page 70.**

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Acer Empowering Technology

The Empowering Technology toolbar makes it easy for you to access frequently used functions and manage your new Acer system. Displayed by default in the upper half of your screen, it provides access to the following utilities:

- **Acer eNet Management** hooks up to location-based networks intelligently.
- **Acer ePower Management** optimizes battery usage via customizable power plans.
- **Acer ePresentation Management** connects to a projector and adjusts display settings.
- **Acer eDataSecurity Management** protects data with passwords and encryption.
- **Acer eLock Management** limits access to external storage media.
- **Acer eRecovery Management** backs up and recovers data flexibly, reliably and completely.
- **Acer eSettings Management** accesses system information and adjusts settings easily.



For more information, right click on the Empowering Technology toolbar, then select the **"Help"** or **"Tutorial"** function.

Empowering Technology password

Before using Acer eLock Management and Acer eRecovery Management, you must initialize the Empowering Technology password. Right-click on the Empowering Technology toolbar and select **"Password Setup"** to do so. If you have not initialized the Empowering Technology password and run Acer eLock Management or Acer eRecovery Management, you will be asked to create it.



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Note: If you lose the Empowering Technology password, there is no way to reset it except by reformatting your system. Make sure to remember or write down your password!

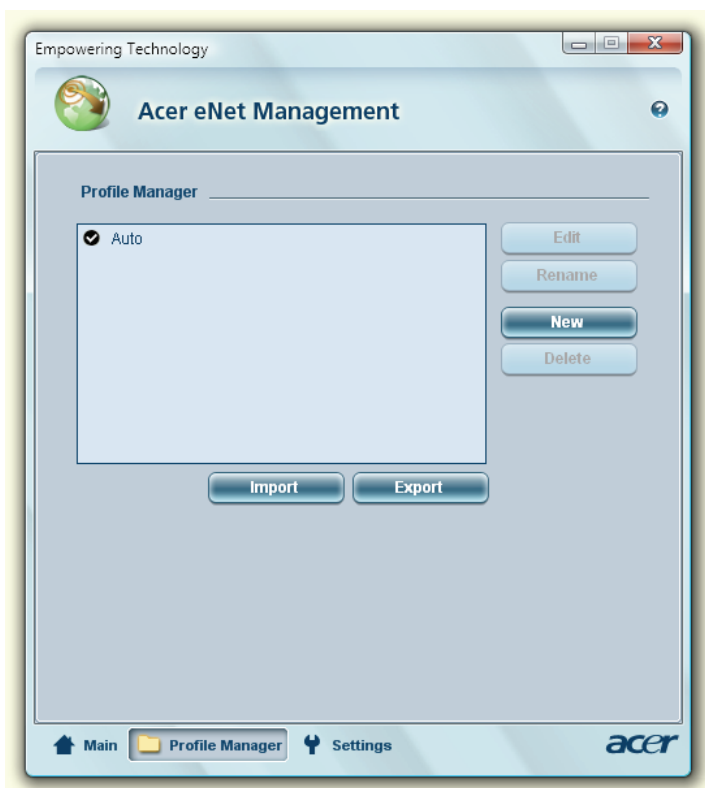
Acer eNet Management

Acer eNet Management helps you quickly connect to both wired and wireless networks in a variety of locations. To access this utility, select **"Acer eNet Management"** from the Empowering Technology toolbar or run the program from the Acer Empowering Technology program group in Start menu. You can also set Acer eNet Management to start automatically when you boot up your PC.

Acer eNet Management automatically detects the best settings for a new location, while offering you the option to manually adjust the settings to match your needs.



Acer eNet Management can save network settings for a location to a profile, and automatically switch to the appropriate profile when you move from one location to another. Settings stored include network connection settings (IP and DNS settings, wireless AP details, etc.), as well as default printer settings. Security and safety concerns mean that Acer eNet Management does not store username and password information.



Acer ePower Management

Acer ePower Management features a straightforward user interface for configuring your power management options. To access this utility, select "**Acer ePower Management**" from the Empowering Technology toolbar, run the program from the Acer Empowering Technology program group in Start menu, or right-click the Windows power icon in the system tray and select "**Acer ePower Management**".

Using power plans

Acer ePower Management comes with three predefined power plans: Balanced, High performance and Power saver. You can also create customized power plans. You can create, switch between, edit, delete and restore power plans, as described below.


View and adjust settings for On Battery and Plugged In modes by clicking the appropriate tabs. You can open Windows power options by clicking "**More Power Options**".



Note: You cannot delete the predefined power plans.

To create a new power plan:

Creating customized power plans allows you to save and quickly switch to a personalized set of power options.

- 1 Click the Create Power Plan icon. 
- 2 Enter a name for your new power plan.
- 3 Choose a predefined power plan to base your customized plan on.
- 4 If necessary, change the display and sleep settings you want your computer to use.
- 5 Click "**OK**" to save your new power plan.

To switch between power plans:

- 1 Select the power plan you wish to switch to from the drop-down list.
- 2 Click "**Apply**".

To edit a power plan:


Editing a power plan allows you to adjust system settings like LCD brightness and CPU speed. You can also turn on/off system components to extend battery life.

- 1 Switch to the power plan you wish to edit
- 2 Adjust settings as required.


- 3 Click **"Apply"** to save your new settings.

To delete a power plan:

You cannot delete the power plan you are currently using. If you want to delete the active power plan, switch to another one first.

- 1 Select the power plan you wish to delete from the drop-down list.
- 2 Click the Delete Power Plan icon. 

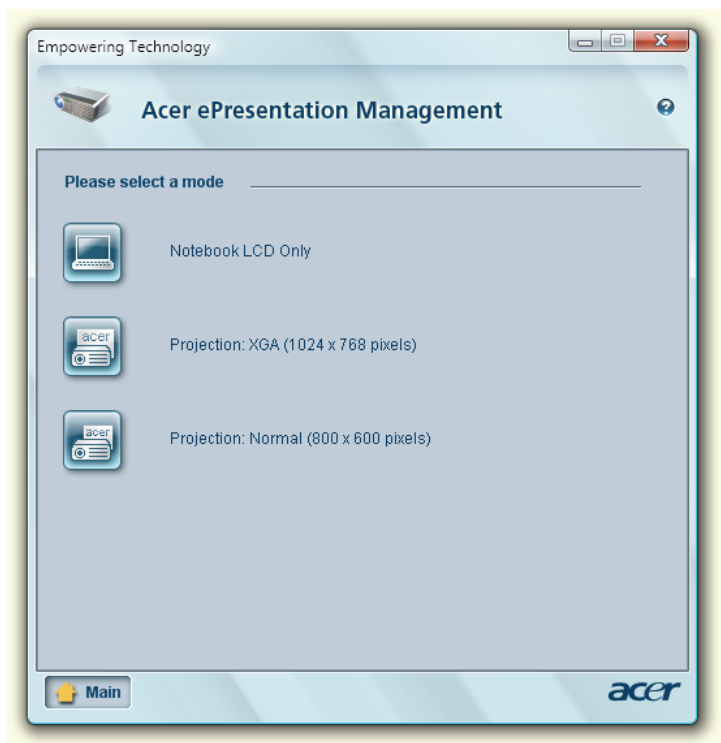
Battery status

For real-time battery life estimates based on current usage, refer to the panel in the upper half of the window. Click the  to view estimated battery life in sleep and hibernate modes.



Acer ePresentation Management

Acer ePresentation Management lets you project your computer's display to an external display device or projector using the hotkey: **<Fn> + <F5>**. If auto-detection hardware is implemented in the system and the external display supports it, your system display will be automatically switched out when an external display is connected to the system. For projectors and external devices that are not auto-detected, launch Acer ePresentation Management to choose an appropriate display setting.



Note: If the restored resolution is not correct after disconnecting a projector, or you need to use an external resolution that is not supported by Acer ePresentation Management, adjust your display settings using Display Properties or the utility provided by the graphics vendor.

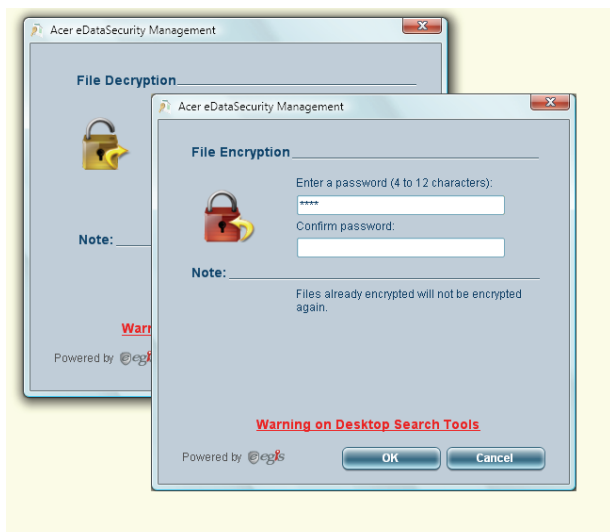
Acer eDataSecurity Management

Acer eDataSecurity Management is an encryption utility that protects your files from being accessed by unauthorized persons. It is conveniently integrated with Windows Explorer as a shell extension for quick data encryption/decryption and also supports on-the-fly file encryption for Lotus Notes and Microsoft Outlook.

The Acer eDataSecurity Management setup wizard will prompt you for a supervisor password and default encryption password. This password will be used to encrypt files by default, or you can choose to enter your own password when encrypting a file.



Note: The password used to encrypt a file is the unique key that the system needs to decrypt it. If you lose the password, the supervisor password is the only other key capable of decrypting the file. If you lose both passwords, there will be no way to decrypt your encrypted file! **Be sure to safeguard all related passwords!**



Acer eLock Management

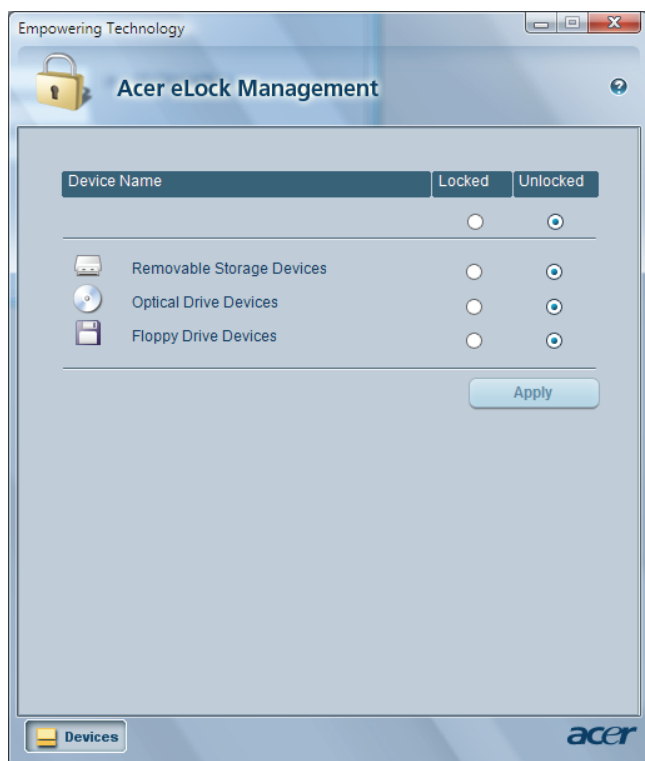
Acer eLock Management is simple yet effective utility that allows you to lock removable storage, optical and floppy drive devices to ensure that data can't be stolen while your system is unattended.

- Removable Storage Devices — includes USB disk drives, USB pen drives, USB flash drives, USB MP3 drives, USB memory card readers, IEEE 1394 disk drives, and any other removable storage devices that can be mounted as a file system when plugged into the system.
- Optical Drive Devices — includes any kind of CD-ROM, DVD-ROM, HD-DVD or Blu-ray drive devices.
- Floppy Drive Devices — 3.5-inch floppy drives only.

To use Acer eLock Management, the Empowering Technology password must be set first. Once set, you can apply locks to any of the devices types. Lock(s) will immediately be set without any reboot necessary, and will remain after rebooting, until removed.



Note: If you lose the Empowering Technology password, there is no method to reset it except by reformatting your system. Make sure to remember or write down your password.

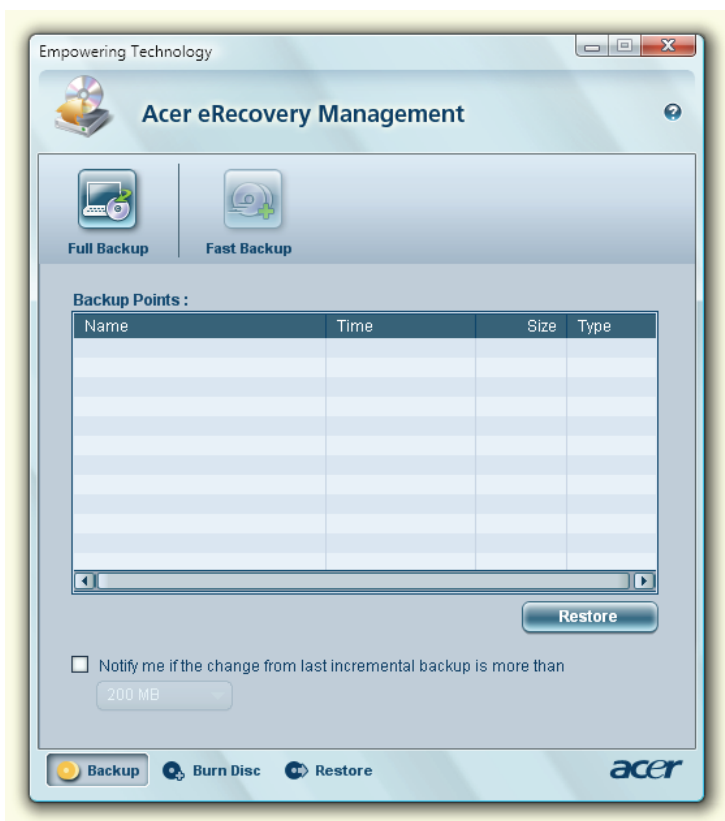


Acer eRecovery Management

Acer eRecovery Management is a versatile backup utility. It allows you to create full or incremental backups, burn the factory default image to optical disc, and restore from previously created backups or reinstall applications and drivers. By default, user-created backups are stored to the D:\ drive.

Acer eRecovery Management provides you with:

- Password protection (Empowering Technology password)
- Full and incremental backups to hard disk or optical disc
- Creation of backups:
 - Factory default image
 - User backup image
 - Current system configuration
 - Application backup
- Restore and recovery:
 - Factory default image
 - User backup image
 - From previously-created CD/DVD
 - Reinstall applications/drivers



For more information, please refer to "**Acer eRecovery Management**" on page 90 in the **AcerSystem User's Guide**.



Note: If your computer did not come with a Recovery CD or System CD, please use Acer eRecovery Management's "System backup to optical disc" feature to burn a backup image to CD or DVD. To ensure the best results when recovering your system using a CD or Acer eRecovery Management, detach all peripherals (except the external Acer ODD, if your computer has one), including your Acer ezDock.

Acer eSettings Management

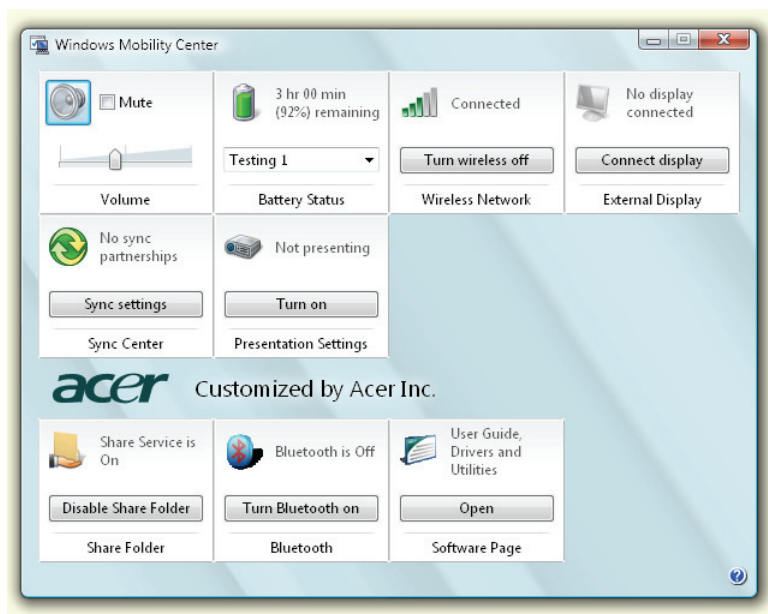
Acer eSettings Management allows you to inspect hardware specifications, set BIOS passwords and modify boot options.

Acer eSettings Management also:

- Provides a simple graphical user interface for navigation.
- Prints and saves hardware specifications.
- Lets you set an asset tag for your system.




Windows Mobility Center



The Windows Mobility Center collects key mobile-related system settings in one easy-to-find place, so you can quickly configure your Acer system to fit the situation as you change locations, networks or activities. Settings include display brightness, power plan, volume, wireless networking on/off, external display settings, display orientation and synchronization status.

Windows Mobility Center also includes Acer-specific settings like Bluetooth Add Device (if applicable), sharing folders overview/sharing service on or off, and a shortcut to the Acer user guide, drivers and utilities.

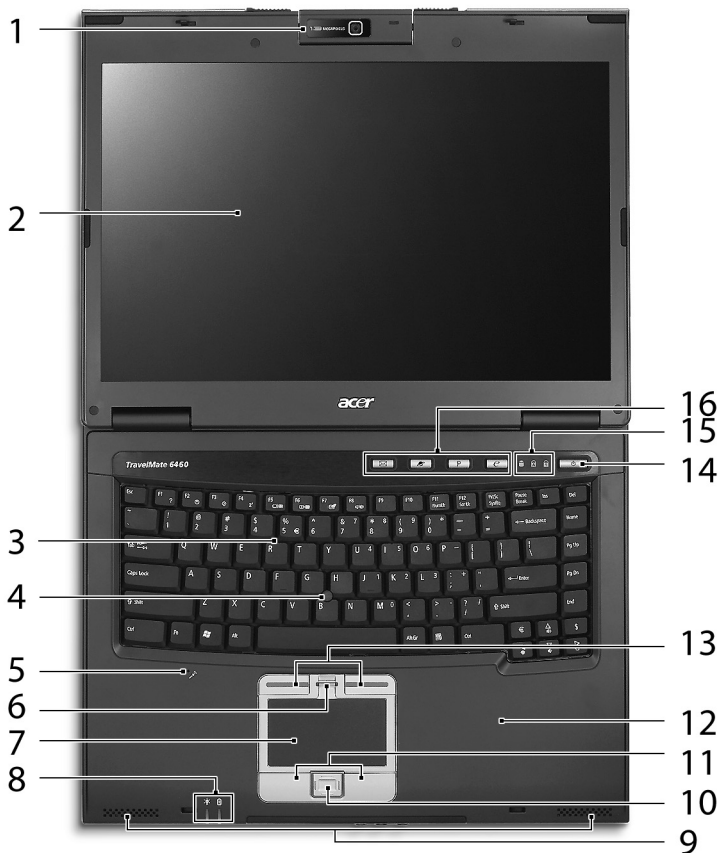
To launch Windows Mobility Center:

- Use the shortcut key <  > + <X>
- Start Windows Mobility Center from the Control panel
- Start Windows Mobility Center from the Accessories program group in the Start menu

Your Acer notebook tour

After setting up your computer as illustrated in the **Just for Starters...** poster, let us show you around your new Acer notebook.

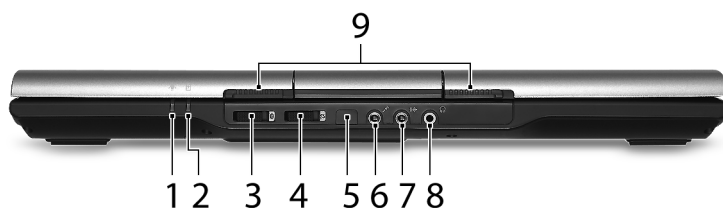
Front view



#	Item	Description
1	Acer Oribcam	1.3 megapixel web camera for video communication (for selected models).
2	Display screen	Also called Liquid-Crystal Display (LCD), displays computer output.
3	Acer FineTouch Keyboard	For entering data into your computer.

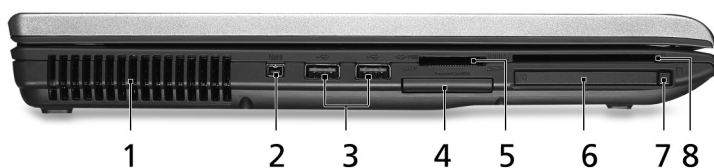
#	Item	Description
4	Acer FineTrack	Touch-sensitive pointing device which functions like a computer mouse when used together with the click buttons. See "FineTrack basics" on page 26 for more details.
5	Microphone	Internal microphone for sound recording.
6	Fingerprint reader	Security identification (for selected models).
7	Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
8/ 15	Status indicators	Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components. See "Indicators" on page 24 for more details.
9	3DSonic speakers	Left and right speakers deliver stereo audio output.
10/ 11	Click buttons (left, center and right)	The left and right buttons function like the left and right mouse buttons; the center button serves as a 4-way scroll button.
12	Palmrest	Comfortable support area for your hands when you use the computer.
13	FinTrack buttons (left and right)	Function like the left and right mouse buttons when used together with the center-keyboard FineTrack. See "FineTrack basics" on page 26 for more details.
14	Power button	Turns the computer on and off.
16	Easy-launch buttons	Buttons for launching frequently used programs. See "Easy-launch buttons" on page 25 for more details.









Closed front view



#	Icon	Item	Description
1		Power indicator	Indicates the computer's power status.
2		Battery indicator	Indicates the computer's battery status.
3		Bluetooth communication switch/indicator	Enables/disables the Bluetooth function. Indicates the status of Bluetooth communication.
4		Wireless communication switch/indicator	Enables/disables the wireless function. Indicates the status of wireless LAN communication.
5		Infrared port	Interfaces with infrared devices (e.g., infrared printer and IR-aware computer). (for selected models)
6		Microphone-in jack	Accepts input from external microphones.
7		Line-in jack	Accepts audio line-in devices (e.g., audio CD player, stereo walkman).
8		Headphones/speaker/line-out jack	Connects to audio line-out devices (e.g., speakers, headphones).
9		Latch	Locks and releases the lid.

Left view



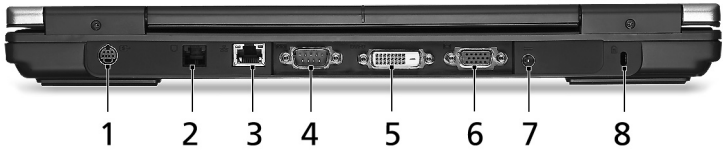
#	Icon	Item	Description
1		Ventilation slots	Enable the computer to stay cool, even after prolonged use.
2		4-pin IEEE 1394 port	Connects to IEEE 1394 devices (for selected models).
3		Two USB 2.0 ports	Connect to USB 2.0 devices (e.g., USB mouse, USB camera) (3 total).
4	ExpressCard/34	ExpressCard/34 slot	Accepts one ExpressCard module (for selected models).
5	    	5-in-1 card reader	Accepts Memory Stick (MS), Memory Stick PRO (MS PRO), MultiMediaCard (MMC), Secure Digital (SD), xD-Picture Card (xD) (for selected models).
6		PC Card slot	Accepts one Type II PC Card.
7		PC Card slot eject button	Ejects the PC Card from the slot.
8		SmartCard slot	Accepts the TravelMate SmartCard (for selected models).






Right view





#	Item	Description
1	Acer MediaBay optical drive	Internal optical drive; accepts CDs or DVDs.
2	Optical disk access indicator	Lights up when the optical drive is active.
3	Optical drive eject button	Ejects the optical disk from the drive.
4	Emergency eject hole	Ejects the optical drive tray when the computer is turned off.
5	USB 2.0 port	Connect to USB 2.0 devices (e.g., USB mouse, USB camera) (3 total).

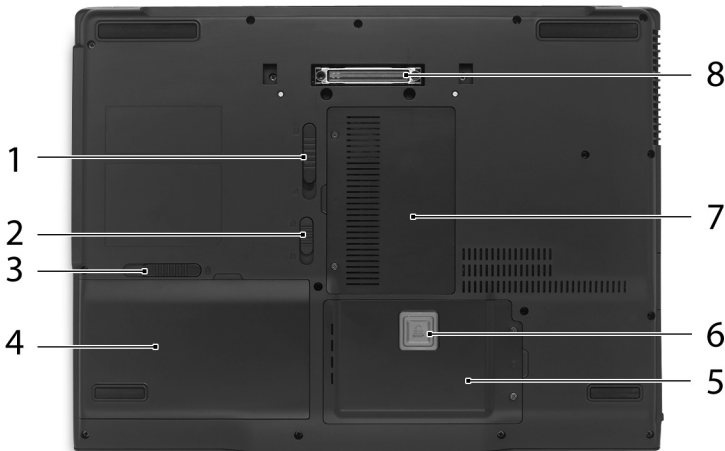
Rear view



#	Icon	Item	Description
1		S-video/TV-out (NTSC/PAL) port	Connects to a television or display device with S-video input (for selected models).
2		Modem (RJ-11) port	Connects to a phone line.
3		Ethernet (RJ-45) port	Connects to an Ethernet 10/100/1000 based network.
4		serial port	Connects to serial devices.
5	DVI-D	Digital Video Interface -Digital port	Supports digital video connections (for selected models).
6		External display (VGA) port	Connects to a display device (e.g., external monitor, LCD projector).

#	Icon	Item	Description
7		DC-in jack	Connects to an AC adapter.
8		Kensington lock slot	Connects to a Kensington-compatible computer security lock.

Base view



#	Item	Description
1	Acer MediaBay release latch	Lock or unlock Acer MediaBay device.
2	Battery lock	Locks the battery in position.
3	Battery latch	Release the battery pack.
4	Battery bay	Houses the computer's battery pack.
5	Hard disk bay	Houses the computer's hard disk (secured with screws).
6	Acer DASP	Disk Anti-Shock Protection
7	Memory compartment	Houses the computer's main memory.
8	ezDock II/II+ connector	Connects to Acer ezDock II/II+.

Specifications

Operating system	<ul style="list-style-type: none"> Windows Vista™ Business Windows Vista™ Home Basic
Platform	<ul style="list-style-type: none"> Intel® Centrino® Duo mobile technology, featuring: <ul style="list-style-type: none"> Intel® Core™ 2 Duo processor T7200/T7400/T7600 (4 MB L2 cache, 2/2.16/2.33 GHz, 667 MHz FSB), or T5500/T5600 (2 MB L2 cache, 1.66/1.83 GHz, 667 MHz FSB), supporting Intel® Extended Memory 64 Technology (Intel® EM64T) Mobile Intel® 945GM/PM Express chipset (for selected models) Intel® PRO/Wireless 3945ABG network connection (dual-band tri-mode 802.11a/b/g) or Intel® PRO/Wireless 3945BG network connection (dual-mode 802.11b/g) Wi-Fi CERTIFIED™ solution, supporting Acer SignalUp™ wireless technology
System memory	Up to 2 GB of DDR2 533/667 MHz memory, upgradeable to 4 GB using two soDIMM modules (dual-channel support)
Display and graphics	<ul style="list-style-type: none"> 15.4" WSXGA+ high-brightness TFT LCD, 1680 x 1050 pixel resolution, 16 ms response time, supporting simultaneous multi-window viewing via Acer GridVista™ 15.4" WXGA high-brightness TFT LCD, 1280 x 800 pixel resolution, 16 ms response time, supporting simultaneous multi-window viewing via Acer GridVista™ 15" SXGA+ high-brightness TFT LCD, 1400 x 1050 pixel resolution 15" XGA high-brightness TFT LCD, 1024 x 768 pixel resolution ATI Mobility™ Radeon® X1300 with 128 MB dedicated GDDR2 VRAM, supporting HyperMemory™, ATI PowerPlay™ 5.0, Microsoft® DirectX® 9.0 and PCI Express (for selected models) or Mobile Intel® 945GM Express chipset with integrated 3D graphics, featuring Intel® Graphics Media Accelerator (GMA) 950, up to 224 MB of shared memory supporting Microsoft® DirectX® 9.0 and dual independent display (for selected models) Up to 2048 x 1536 resolution via non-interlaced CRT display 16.7 million colors MPEG-2/DVD hardware-assisted capability S-video/TV-out (NTSC/PAL) support (for selected models) DVI-D (true digital video interface) support (for selected models)

Storage subsystem	<ul style="list-style-type: none"> • 60/80/100/120/160 GB or higher Serial ATA primary hard disk drive with Acer DASP (Disk Anti-Shock Protection) • Acer MediaBay hot-swappable 80/100/120/160 GB Serial ATA second hard disk drive • Acer MediaBay hot-swappable optical drive: <ul style="list-style-type: none"> • 8X DVD-Super Multi double-layer drive • DVD/CD-RW combo drive • 5-in-1 card reader, supporting Secure Digital (SD), MultiMediaCard (MMC), Memory Stick® (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD) (for selected models)
Dimensions and weight	<ul style="list-style-type: none"> • 360 (W) x 271 (D) x 35.5 (H) mm (14.2 x 10.6 x 1.4 inches) • 3.12 kg (6.88 lbs.) with 8-cell battery pack and Acer MediaBay 6-cell second battery pack • 2.85 kg (6.27 lbs.) with 8-cell battery pack and optical drive • 2.7 kg (5.94 lbs.) with 6-cell battery pack and optical drive
Power subsystem	<ul style="list-style-type: none"> • ACPI 3.0 CPU power management standard: supports Standby and Hibernation power-saving modes • 71 W 4800 mAh Li-ion primary battery pack (8-cell) • 44.4 W 4000 mAh Li-ion primary battery pack (6-cell) • Acer QuicCharge™ technology: <ul style="list-style-type: none"> • 80% charge in 1 hour • 2-hour rapid charge system-off • 2.5-hour charge-in-use • 3-pin 90 W AC adapter
Input devices	<ul style="list-style-type: none"> • Security access via TravelMate TPM-based fingerprint reader / TravelMate SmartCard reader (for selected models) • 88-/89-key Acer FineTouch™ keyboard with 5° curve, inverted "T" cursor layout, 2.5 mm (minimum) key travel • 12 function keys, four cursor keys, two Windows® keys, hotkey controls, embedded numeric keypad, international language support • Dual navigation control, featuring Acer FineTrack™ with two FineTrack™ buttons and touchpad with 4-way scroll button • Four easy-launch buttons: Empowering Key, email, Internet, user-programmable • Two communication LED switches: WLAN, Bluetooth®
Audio	<ul style="list-style-type: none"> • Intel® High-Definition audio support • Two built-in Acer 3DSonic (1.5W) stereo speakers • Built-in microphone • MS Sound compatible

Communication	<ul style="list-style-type: none"> • Acer Video Conference featuring Voice and Video over Internet Protocol (VVoIP) support via Acer OrbiCam™ and optional Acer Bluetooth® VoIP phone (for selected models) • Acer OrbiCam™ integrated 1.3 megapixel CMOS camera (for selected models), featuring: <ul style="list-style-type: none"> • 225° ergonomic rotation • Acer VisageON™ technology • Acer Primalite™ technology • WLAN: integrated Intel® PRO/Wireless 3945ABG network connection (dual-band tri-mode 802.11a/b/g) or 3945BG network connection (dual-mode 802.11b/g) Wi-Fi CERTIFIED™ solution, supporting Acer SignalUp™ wireless technology • WPAN: Bluetooth® 2.0+EDR (Enhanced Data Rate) • LAN: Gigabit Ethernet; ASF 2.0 support; Wake-on-LAN ready • Modem: 56K ITU V.92 with PTT approval; Wake-on-Ring ready
I/O interface	<ul style="list-style-type: none"> • Acer ezDock II/ II+ connector • ExpressCard™/34 slot (for selected models) • PC Card slot (one Type II) • TravelMate fingerprint reader (for selected models) • TravelMate SmartCard reader (for selected models) • 5-in-1 card reader (SD, MMC, MS, MS PRO, xD) (for selected models) • Three USB 2.0 ports • DVI-D port (for selected models) • IEEE 1394 port (for selected models) • Fast infrared (FIR) port (for selected models) • External display (VGA) port • S-video/TV-out (NTSC/PAL) port (for selected models) • Serial port • Headphones/speaker/line-out port • Microphone-in jack • Line-in jack • Ethernet (RJ-45) port • Modem (RJ-11) port • DC-in jack for AC adapter
Security	<ul style="list-style-type: none"> • Acer DASP/DASP+ including Acer DASP (Disk Anti-Shock Protection), Acer GraviSense and Acer Anti-Theft HDD protection technologies (for selected models) • TravelMate TPM-based fingerprint solution (for selected models) • TravelMate SmartCard solution (for selected models) • TravelMate TPM (Trusted Platform Module) solution supporting Acer eDataSecurity Management (for selected models) • BIOS user, HDD and supervisor passwords • Kensington lock slot

Software	<ul style="list-style-type: none"> • Acer Empowering Technology (Acer eNet / ePower / ePresentation / eDataSecurity / eLock / eRecovery / eSettings Management) • Acer GridVista™ • Acer Launch Manager • Acer Protector Suite QL fingerprint utility (for selected models) • PlatinumSecret™ suite (for selected models) • Norton Internet Security • Adobe® Reader® • CyberLink® PowerDVD® • NTI CD-Maker™
Options and accessories	<ul style="list-style-type: none"> • Acer ezDock II • Acer ezDock II+ • Acer MediaBay 80/100/120/160 GB second hard disk drive • Acer MediaBay 6-cell 3800 mAh Li-ion second battery pack • 8-cell 4800 mAh Li-ion primary battery pack • Acer Bluetooth® VoIP phone • 512 MB / 1 GB / 2 GB DDR2 533/667 MHz soDIMM module • External USB floppy disk drive • 3-pin 90 W AC adapter
Environment	<ul style="list-style-type: none"> • Temperature: <ul style="list-style-type: none"> • Operating: 5 °C to 35 °C • Non-operating: -20 °C to 65 °C • Humidity (non-condensing): <ul style="list-style-type: none"> • Operating: 20% to 80% • Non-operating: 20% to 80%
System compliance	<ul style="list-style-type: none"> • Wi-Fi® • ACPI 3.0 • Mobile PC 2002 • DMI 2.0 • TCG 1.2
Warranty	One-year International Travelers Warranty (ITW)










Note: The specifications listed above are for reference only. The exact configuration of your PC depends on the model purchased.

Indicators

The computer has eight easy-to-read status indicators, including five on the front panel.



The power, battery and wireless communication status indicators are visible even when the LCD display is closed.

Icon	Function	Description
	Num Lock	Lights up when Num Lock is activated.
	Caps Lock	Lights up when Caps Lock is activated.
	HDD	Indicates when the hard disk drive is active.
	Bluetooth	Indicates the status of Bluetooth communication.
	Wireless LAN	Indicates the status of wireless LAN communication.
	Power	Indicates the computer's power status.
	Battery	Indicates the computer's battttery status.



- 1. **Charging:** The light shows amber when the battery is charging.
- 2. **Fully charged:** The light shows green when in AC mode.

Easy-launch buttons

Located above the keyboard are four buttons. These buttons are called easy-launch buttons. They are: Empowering Key < *e* >, one user-programmable button, Internet and email.

Press < *e* > to run the Acer Empowering Technology. Please see "Acer Empowering Technology" on page 1. The mail and Web browser buttons are pre-set to email and Internet programs, but can be reset by users. To set the Web browser, mail and programmable buttons, run the Acer Launch Manager. See "**Launch Manager**" on page 36.



Easy-launch button	Default application
<i>e</i>	Acer Empowering Technology (user-programmable)
P	User-programmable
Internet	Internet browser (user-programmable)
Email	Email application (user-programmable)

FineTrack and FineTrack buttons

The built-in FineTrack is a pointing device that senses movement on its surface. This means the cursor responds as you use your finger to move the FineTrack. Its central location on the keyboard provides optimum comfort and support.



FineTrack basics

The following items show you how to use the FineTrack and FineTrack buttons:

- Using your finger, apply light, steady force on the FineTrack (1) to move the cursor.
- Press the FineTrack left (2) and right (3) buttons located below the keyboard to perform selection and execution functions. These two FineTrack buttons are similar to the left and right buttons on a mouse.

Function	Left button (2)	Right button (3)
Execute	Quickly click twice.	
Select	Click once.	
Drag	Click and hold, then use finger on the FineTrack to drag the cursor.	
Access context menu		Click once.

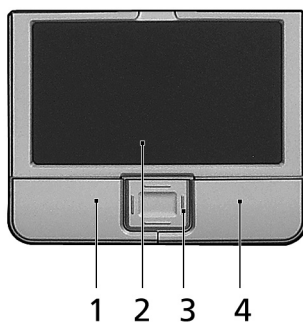
Touchpad

The built-in touchpad is the pointing device that senses movement on its surface. This means the cursor responds as you move your finger across the surface of the touchpad. The central location on the palmrest provides optimum comfort and support.



Touchpad basics

The following items show you how to use the touchpad:



- Move your finger across the touchpad **(2)** to move the cursor.
- Press the left **(1)** and right **(4)** buttons located beneath the touchpad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad is the same as clicking the left button.
- Use the 4-way scroll **(3)** button to scroll up or down and move left or right a page. This button mimics your cursor pressing on the right scroll bar of Windows applications.

Function	Left button (1)	Right button (4)	Main touchpad (2)	Center button (3)
Execute	Quickly click twice.		Tap twice (at the same speed as double-clicking a mouse button).	
Select	Click once.		Tap once.	
Drag	Click and hold, then use finger on the touchpad to drag the cursor.		Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the touchpad on the second tap and drag the cursor.	
Access context menu		Click once.		
Scroll				Click and hold to move up/down/left/right.



.....

Note: When using the touchpad, keep it — and your fingers — dry and clean. The touchpad is sensitive to finger movement; hence, the lighter the touch, the better the response. Tapping harder will not increase the touchpad's responsiveness



.....

Note: By default, vertical and horizontal scrolling is enabled on your touchpad. It can be disabled under Mouse settings in Windows Control Panel.

Using Acer FineTouch keyboard

The keyboard has full-sized keys and an embedded numeric keypad, separate cursor, lock, Windows, function and special keys.

Lock keys and embedded numeric keypad

The keyboard has three lock keys which you can toggle on and off.























Lock key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num Lock <Fn> + <F11>	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad.
Scroll Lock <Fn> + <F12>	When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications.

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the keycaps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

Desired access	Num Lock on	Num Lock off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold <Shift> while using cursor-control keys.	Hold <Fn> while using cursor-control keys.
Main keyboard keys	Hold <Fn> while typing letters on embedded keypad.	Type the letters in a normal manner.

Windows keys

The keyboard has two keys that perform Windows-specific functions.

Key	Description
 Windows key	<p>Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of functions:</p> <ul style="list-style-type: none"><  > : Open or close the Start menu<  > + <D>: Display the desktop<  > + <E>: Open Windows Explore<  > + <F>: Search for a file or folder<  > + <G>: Cycle through Sidebar gadgets<  > + <L>: Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain)<  > + <M>: Minimizes all windows<  > + <R>: Open the Run dialog box<  > + <T>: Cycle through programs on the taskbar<  > + <U>: Open Ease of Access Center<  > + <X>: Open Windows Mobility Center<  > + <BREAK>: Display the System Properties dialog box<  > + <SHIFT+M>: Restore minimized windows to the desktop<  > + <TAB>: Cycle through programs on the taskbar by using Windows Flip 3-D<  > + <SPACEBAR>: Bring all gadgets to the front and select Windows Sidebar<CTRL> + <  > + <F>: Search for computers (if you are on a network)<CTRL> + <  > + <TAB>: Use the arrow keys to cycle through programs on the taskbar by using Windows Flip 3-D
	<div><div><p>.....</p><p>Note: Depending on your edition of Windows Vista, some shortcuts may not function as described.</p></div></div>
 Application key	This key has the same effect as clicking the right mouse button; it opens the application's context menu.




Hotkeys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness, volume output and the BIOS utility.

To activate hotkeys, press and hold the **<Fn>** key before pressing the other key in the hotkey combination.



Hotkey	Icon	Function	Description
<Fn> + <F1>	?	Hotkey help	Displays help on hotkeys.
<Fn> + <F2>		Acer eSettings	Launches Acer eSettings in Acer Empowering Technology. See "Acer Empowering Technology" on page 1.
<Fn> + <F3>		Acer ePower Management	Launches Acer ePower Management in Acer Empowering Technology. See "Acer Empowering Technology" on page 1.
<Fn> + <F4>	Z ^z	Sleep	Puts the computer in Sleep mode.
<Fn> + <F5>		Display toggle	Switches display output between the display screen, external monitor (if connected) and both.
<Fn> + <F6>		Screen blank	Turns the display screen backlight off to save power. Press any key to return.
<Fn> + <F7>		Touchpad toggle	Turns the internal touchpad on and off.
<Fn> + <F8>		Speaker toggle	Turns the speakers on and off.
<Fn> + <↑>		Volume up	Increases the sound volume.

Hotkey	Icon	Function	Description
<Fn> + <↓>		Volume down	Decreases the sound volume.
<Fn> + <→>		Brightness up	Increases the screen brightness.
<Fn> + <←>		Brightness down	Decreases the screen brightness.

Special keys

You can locate the Euro symbol and the US dollar sign at the upper-center and/or bottom-right of your keyboard.



The Euro symbol

- 1 Open a text editor or word processor.
- 2 Either press <€> at the bottom-right of the keyboard, or hold <Alt Gr> and then press the <5> key at the upper-center of the keyboard.



Note: Some fonts and software do not support the Euro symbol. Please refer to www.microsoft.com/typography/faq/faq12.htm for more information.

The US dollar sign

- 1 Open a text editor or word processor.
- 2 Either press <\$> at the bottom-right of the keyboard, or hold <Shift> and then press the <4> key at the upper-center of the keyboard.



Note: This function varies according to the language settings.

Ejecting the optical (CD or DVD) drive tray

Press the drive eject button to eject the optical drive tray when the computer is on.



Insert a clip to the emergency eject hole to eject the optical drive tray when the computer is off.

Audio

The computer comes with 32-bit Intel High-Definition audio, and built-in stereo speakers.



Adjusting the volume

Adjusting the volume on the computer is as easy as pressing some buttons. See "Hotkeys" on page 41 for more information on adjusting the speaker volume.

Using the system utilities



Note: The system utilities work under Microsoft Windows XP only.

Acer GridVista (dual-display compatible)

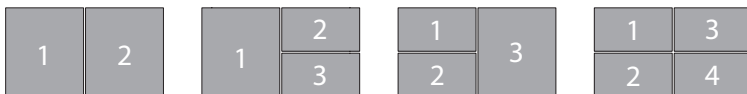


Note: This feature is only available on certain models.

To enable the dual monitor feature of your notebook, first ensure that the second monitor is connected, then, select **Start, Control Panel, Display** and click on **Settings**. Select the secondary monitor **(2)** icon in the display box and then click the check box **Extend my Windows desktop onto this monitor**. Finally, click **Apply** to confirm the new settings and click **OK** to complete the process.



Acer GridVista is a handy utility that offers four pre-defined display settings so you can view multiple windows on the same screen. To access this function, please go to **Start, All Programs** and click on **Acer GridVista**. You may choose any one of the four display settings indicated below:

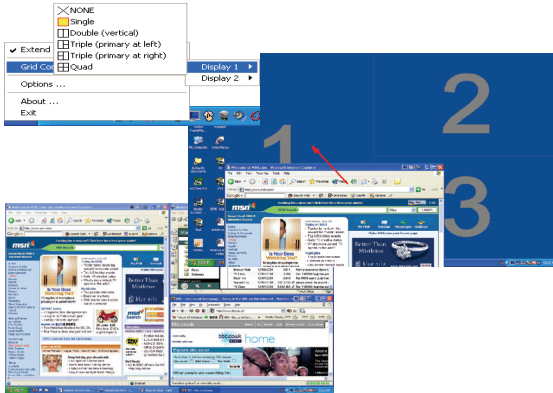


Double (vertical), Triple (primary at left), Triple (primary at right), or Quad

Acer GridVista is dual-display compatible, allowing two displays to be partitioned independently.

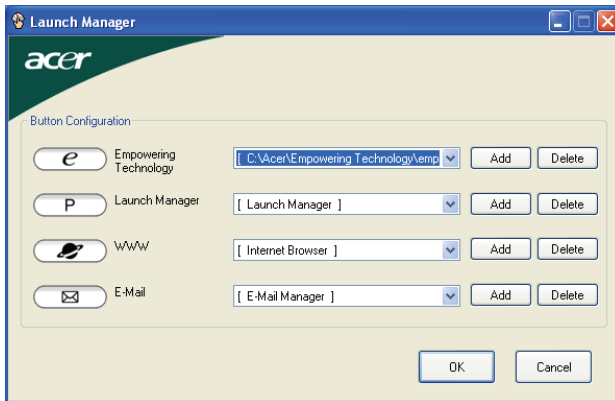
Acer GridVista is simple to set up:

- 1 Run Acer GridVista and select your preferred screen configuration for each display from the taskbar.
- 2 Drag and drop each window into the appropriate grid.
- 3 Enjoy the convenience of a well-organized desktop.



Note: Please ensure that the resolution setting of your second monitor is set to the manufacturer's recommended value.

Launch Manager



Launch Manager allows you to set the four easy-launch buttons located above the keyboard. **"Easy-launch buttons" on page 25** for the location of the easy-launch buttons.

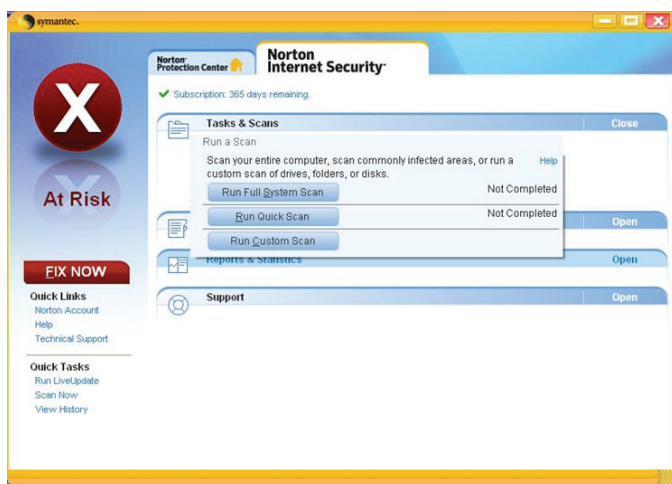
You can access the Launch Manager by clicking on **Start, All Programs**, and then **Launch Manager** to start the application.

Norton Internet Security

Norton Internet Security is an anti-virus utility that can protect against viruses, keeping your data safe and secure.

How do I check for viruses?

- 1 Double-click the **Norton Internet Security** icon on the Windows desktop.
- 2 Select **Tasks & Scans**.
- 3 Select **Run Scan** to scan your system.



- 4 When the scan is complete, review the results of the scan.



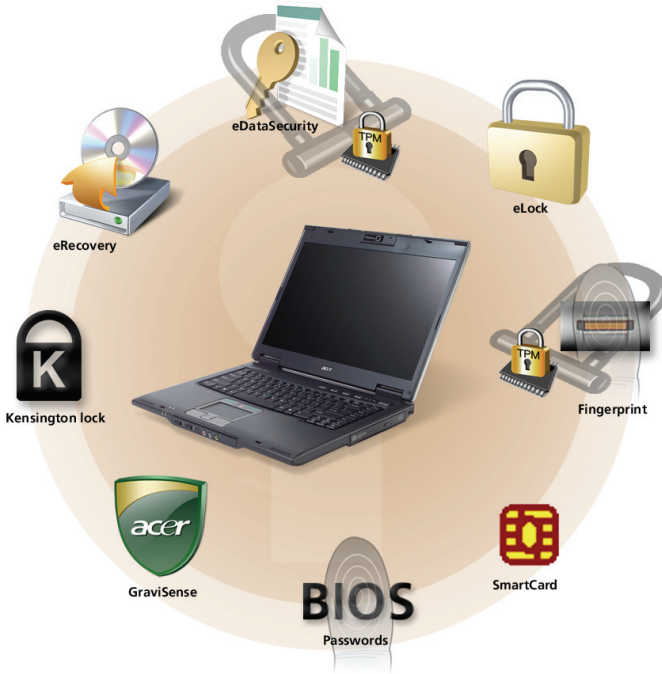
Note: For optimal security, run a Full System Scan when scanning your computer for the first time.

You can schedule customized virus scans that run unattended on specific dates and times or at periodic intervals. If you are using the computer when the scheduled scan begins, it runs in the background so that you do not have to stop working.

For more information refer to the Norton Internet Security help files.

Securing your computer

Your computer is a valuable investment that you need to take care of. Learn how to protect and take care of your computer.



Security features include anti-theft and system security:

- Anti-theft
 - Kensington lock, a security notch
 - Acer GraviSense
- System security
 - Acer TPM-based eDataSecurity Management
 - Acer TPM-based fingerprint utility
 - Acer eLock Management
 - Acer eRecovery Management
 - SmartCard
 - BIOS passwords



Note: For more information about Acer eLock, eRecovery and TPM-based eDataSecurity Management, please refer to "Acer Empowering Technology" on page 1.

Using a computer security lock

The notebook comes with a Kensington-compatible security slot for a security lock.




Wrap the computer security lock cable around an immovable object such as a table or handle of a locked drawer. Insert the lock into the notch and turn the key to secure the lock. Some keyless models are also available.

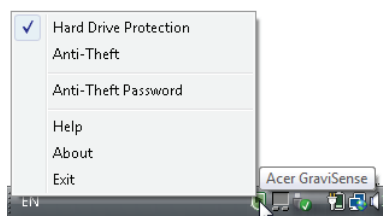
Acer GraviSense

Acer GraviSense is an innovative utility designed to further protect your data by automatically moving the read/write heads of your Acer notebook's hard disk away from the storage disk (this is known as "parking" the heads) in the event that sudden motion is detected. Acer GraviSense can also be set to activate an alarm in case your notebook is moved by an unauthorized person.

Using Acer GraviSense

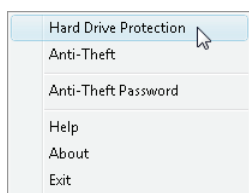
You can launch Acer GraviSense in a number of ways:

- From the Start menu, go to **Start > (All) Programs > Acer GraviSense**.
- When Acer GraviSense is running, an icon  will be displayed in the task tray. Move your cursor over the icon to identify Acer GraviSense. Left-click or right-click on the icon to open a context menu.

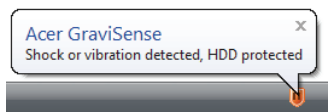


Protecting the HDD

Activate this feature by right-clicking on the tray icon and selecting Hard Drive Protection.

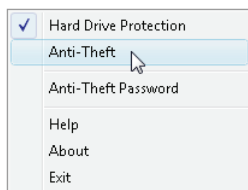


Selecting this function will halt data transactions to the HDD in the event that any vibration or movement which exceeds the level tolerated by the HDD is detected.



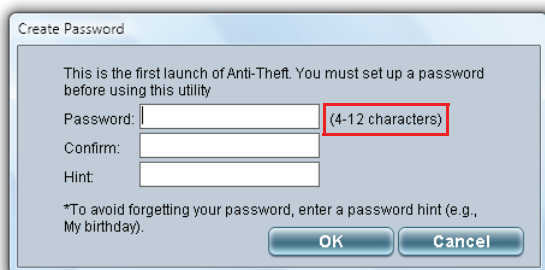
Anti-Theft

Activate this feature by right-clicking on the tray icon and selecting Anti-Theft.



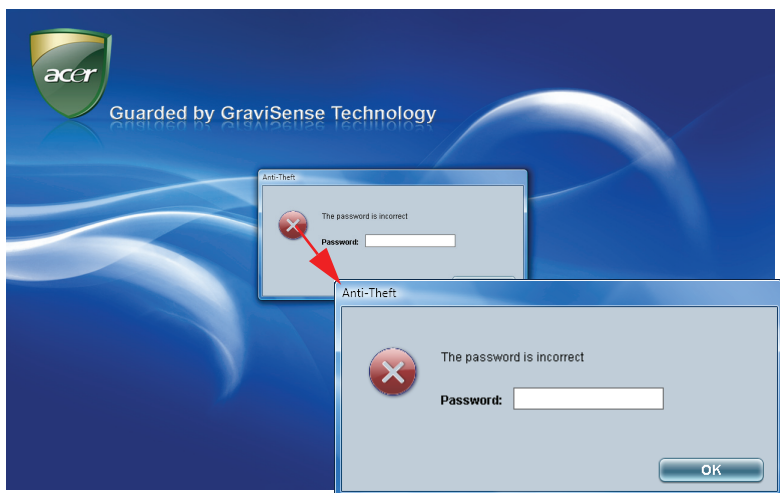
When enabled, this feature will sound an alarm if your notebook is moved. This feature is password-protected to prevent unauthorized access.

The first time you activate this function, you will be prompted to set a new password.

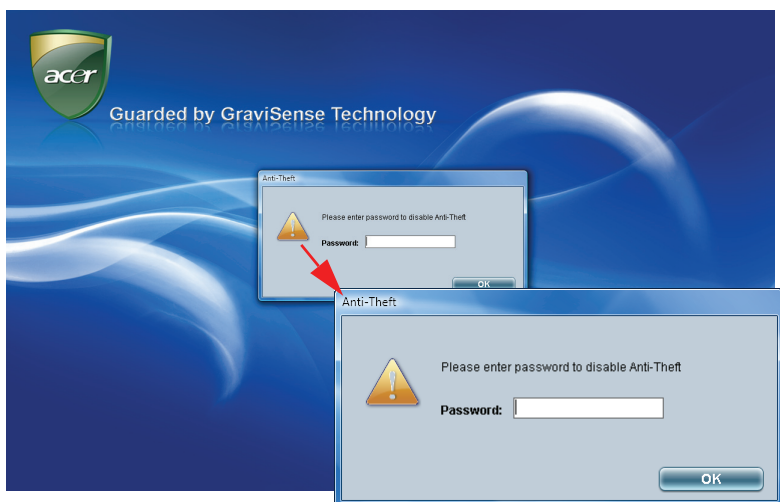


Your password needs to be between four and twelve characters, and should consist of letters and numbers. Once you've set the password, the Anti-Theft feature will be activated.

If you enter a password that is invalid for any reason, you will be prompted to try a new password.



When activated, Acer GraviSense will show a full-screen image and a password window.



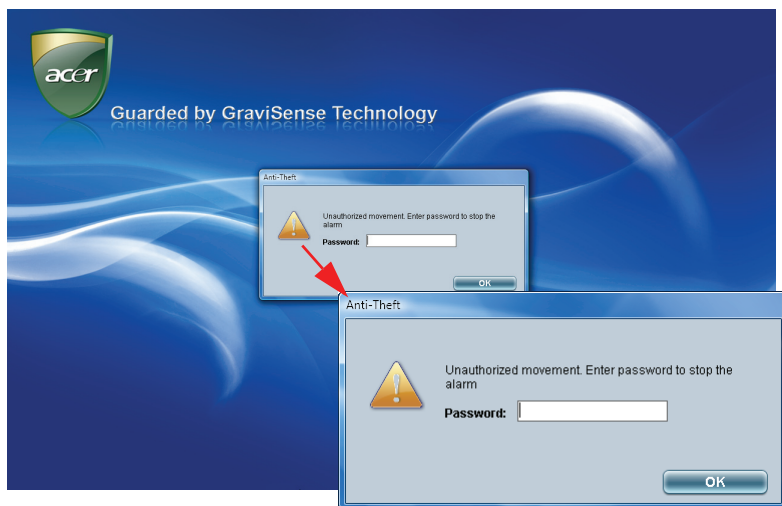
When activated, the Anti-Theft feature will disable the following functions:

- Alt + Tab
- Ctrl + Shift + Esc
- Ctrl + Alt + Del
- Windows keys
- Task bar
- Function keys

When activated, the settings below will be changed to "do nothing" (your personal settings will be recovered once the Anti-Theft function is disabled):

- Power button
- Sleep button
- Close the lid

If the system detects any movement when this function is active, the system will emit a beeping sound as a warning and prompt you to enter the password.



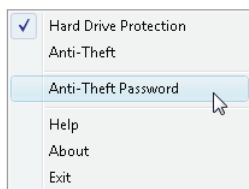
.....
Note: Please remember the password as you will need it in order to change your password in the future.



.....
Note: You need to disable the Task Manager before setting the Anti-Theft function.

Anti-Theft Password

Activate this feature by right-clicking on the tray icon and selecting Anti-Theft Password.



Enter your original password, and new password in the appropriate text boxes. Confirm your new password. Your password needs to be between four and twelve characters, and should consist of letters and numbers. You may also choose to setup a reminder for yourself.

A screenshot of a dialog box titled 'Edit Password'. It contains four text input fields: 'Original Password:', 'New Password:', 'Confirm Password:', and 'Hint:'. To the right of the 'New Password' field is the text '(4-12 characters)'. At the bottom of the dialog, there is a note: '*To avoid forgetting your password, enter a password hint (e.g., My birthday).'. Below the note are two buttons: 'OK' and 'Cancel'.

Acer Trusted Platform Module (TPM)

With the development of TCG (Trusted Computing Group, <http://www.trustedcomputinggroup.org/>), the Acer Trusted Platform Module offers the cryptographic implementations of RSA and hash algorithms (SHA-1 and MD-5) for highest possible performance, as well as a true random number generator (TRNG).

The Acer Security Platform Solution Software is a comprehensive set of tools that takes advantage of the Trusted Platform Module embedded in your system. This solution provides services to easily create digital certificates using the Trusted Platform Module and to manage these certificates.

You can use the certificates to:

- Send and receive secure e-mail from e-mail clients like Microsoft Outlook Express, Microsoft Outlook or Netscape Messenger
- Set up browser (e.g. Netscape Navigator or Internet Explorer) and web server (e.g. Microsoft Internet Information Server) for Client Authentication
- Sign Microsoft Word macros.
- Encrypt files and folders
- Secure network connections

User roles

Security Platform Solution involves several user roles:

- All Security Platform user roles are based on Windows user accounts (local or domain users). These user accounts have been authenticated by Windows login.
- Each user role has an intended purpose.
- When the Security Platform is configured, members of different user roles are initialized.
- Acting a specific user role requires a specific authentication (e.g. providing a specific password).
- A person can act multiple user roles.

The following table lists all user roles.

User Roles:

User Role	Based on...	Purpose & Tasks	Initialization	Authentication
Security Platform Owner	Windows user account (local or domain), member of the Administrators group	Perform critical administrative tasks, e.g. restoration of Security Platform.	Security Platform Initialization enables a Windows user to act as a Security Platform Owner.	Owner Password

User Roles:

User Role	Based on...	Purpose & Tasks	Initialization	Authentication
Security Platform Administrator (also called just "Administrator")	Windows user account (local or domain), member of the Administrators group	Perform administrative tasks, which require Windows administrative rights.	No special initialization necessary.	Apart from the authentication as Windows administrator, some administrative tasks require access to special token files protected by dedicated passwords
Security Platform User (also called just "User")	Windows user account (local or domain)	Utilize Security Platform Features, e.g. file and folder encryption or secure e-mail. Configure features and perform user-specific Security Platform tasks.	Security Platform User Initialization enables a Windows user to act as a Security Platform User.	Basic User Password

Initialization and Administration of the Acer Security Platform

The initial status of the Acer Security Platform is disabled by default on delivery to the customer. This ensures that no flow of confidential information from the Acer Security Platform back to Acer can occur in this phase, as there are no shared secrets in any form.

Before you can take advantage of your Acer Security Platform you must:

- Enable the Acer Security Platform. To enable the chip, please see **"Enabling or disabling Acer TPM security" on page 68**.
- Setup your Infineon Security Platform by starting the Acer Security Platform Initialization Wizard
- Setup Acer Security Platform Users by starting the Infineon Security Platform User Initialization Wizard

Refer to Infineon Security Platform Solution Tools for detailed information about the wizards and administrative tools.

If the Infineon Security Platform and an Infineon Security Platform User have been setup, you are ready to obtain an Infineon Trusted Platform Module based certificate.

User Authentication

For security reasons, you need to authenticate to the Acer Security Platform before you can use security features. E.g. file encryption requires your Basic User Key which is protected with your Basic User Password. Typing in this password

means authenticating to the Security Platform. Only after successful authentication your Basic User Key can be used.

The Acer Security Platform Solution provides two authentication levels to protect your Basic User Key:

Password Authentication

The Basic User Key is protected with the Basic User Password. This password has to be typed in manually.

Enhanced Authentication

The Basic User Key is protected with the Basic User Passphrase. This passphrase is securely stored by an authentication device, e.g. a SmartCard, a secure USB token, a fingerprint reader or another biometric authentication device. The passphrase can be accessed only by this authentication device, e.g. by inserting a SmartCard and typing in its PIN or by putting the finger on the fingerprint reader.

Passwords and Passphrases

With Password Authentication a "normal" password serves as Basic User Password. Although it is technically possible to use long and complex passwords, most passwords are quite short, because they need to be memorized.

With Enhanced Authentication there is no need to memorize passwords, because they are managed by the authentication device. From the user's point of view, the password is replaced by a PIN or by a biometric authentication. Thus Enhanced Authentication is more user-friendly. On the other hand the security level is considerably raised with the authentication device's built-in security features. For example, a SmartCard has a retry counter blocking the card after several wrong PIN entries. This way brute-force attacks are made impossible and relatively simple PINs can be used.

To emphasize that Enhanced Authentication combines long and complex passwords with user-friendliness, another term is used instead of Password: the Passphrase. A passphrase is basically nothing different than a long complex password.

The Security Platform Solution differentiates between these two terms:

Password is used in Password Authentication mode and means Basic User Password.

Passphrase is used in Enhanced Authentication mode. It also means the Basic User Password. The Basic User Password is called Basic User Passphrase in this context.

Installation and Administration of

Enhanced Authentication

Authentication devices are provided by separately installable software plug-ins. The Security Platform Solution Software detects installed authentication devices automatically.

The configuration of authentication devices is user-specific, i.e. different Security Platform Users can use different authentication devices. Usage of Enhanced Authentication can be controlled by policies.

Migrating Keys to other Systems

Once a system user is set up as an Infineon Security Platform User, there may arise the requirement to provide the user-specific security environment not only on the computer where the setup happened, but also on other computers the user has access to.

Migration Basics

The Acer Security Platform offers the possibility to maintain and administrate this situation by offering a migration path for the user-specific secret. The basic idea of this technology is the strict separation of the administrative and operational role of migration.

The migration operation is performed using the Acer Security Platform Migration Wizard.

- Migration to a computer without existing user keys and certificates:
The migration process will install new user keys and certificates on the machine you are migrating to.
You will need to configure Security Platform Features for use with these new keys and certificates.
- Migration to a computer with existing user keys and certificates (different Basic User Key):
The migration process will invalidate your existing Security Platform keys and certificates installed on the machine you are migrating to. Your encrypted data may be lost as a result of this operation. Please decrypt your encrypted data before proceeding with migration or contact your system administrator for data recovery procedure.
- Migration to a computer with existing user keys and certificates (same Basic User Key):
If the destination computer already uses the same Basic User Key as the source computer, then the migration process will merge your user keys and certificates. After migration, the keys and certificates from the migration archive will be active. Old keys and certificates will be kept. This way you will not lose any encrypted data.

Acer TPM-based fingerprint reader



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Note: This feature is only available on certain models.

Acer TPM-based Protector Suite QL provides fingerprint-based biometric identification and TPM solution to control access to your computer's drives. The utility is accessed via the Protector Suite icon on the taskbar. Below is a brief description of the steps for fingerprint scanning and user enrollment. For full details of Protector Suite QL's programmable functions, open the utility and follow the step-by-step guide.

Password choice

To enter Protector Suite QL, enter your password. If you are using the utility for the first time, you may choose your own password. Do not share your password with others. Make sure to remember your password.

Correct scanning procedure

- 1 Position the first joint of the finger you are scanning beyond the sensor edge.
- 2 Maintain finger contact with the sensor while sliding the finger across it in a straight line.
- 3 The application window will indicate a successful scan. If the scan quality is poor, repeat the procedure.

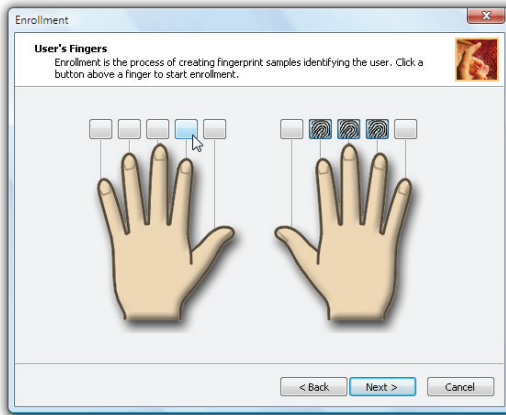


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Note: Make sure to keep the finger flat throughout the scanning procedure.

User's Fingers and additional encryption performed by TPM chip

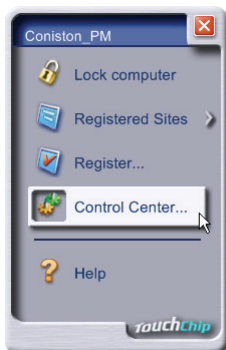
You can use Protector Suite QL to create fingerprint samples to identify a user. The application can record prints of up to all 10 fingers, depending on the level of security required.



- Follow the "User's Fingers" screen commands to record the fingerprints of authorized users. The utility must record three successful scans of each print before it can be accepted into the system.



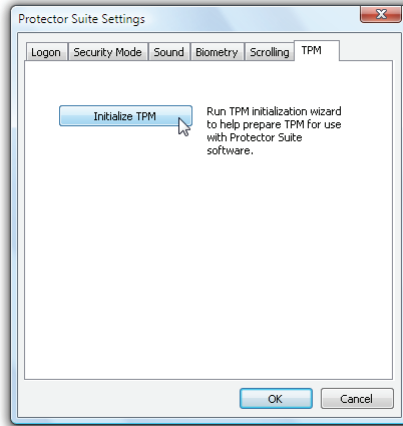
- Once you have successfully enrolled a finger, swipe it to access the Protector Suite QL Control Center options.



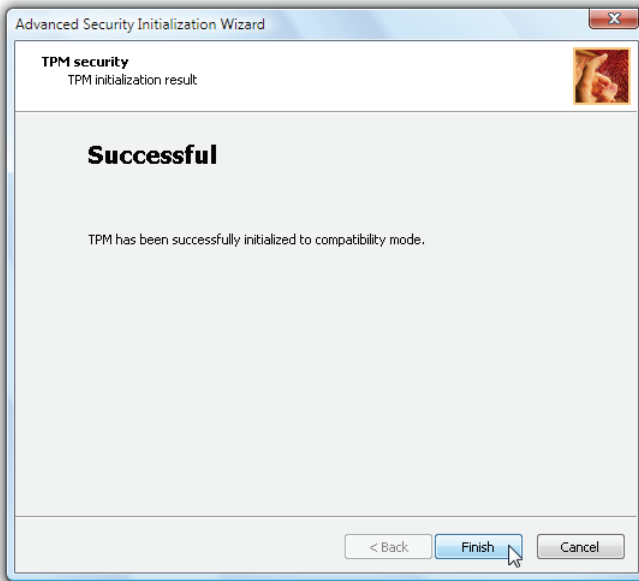
- After entering the Control Center expand the Settings menu and select System Settings.



- Once the System Settings window opens, click the TPM tab to access controls for your system's TPM module.



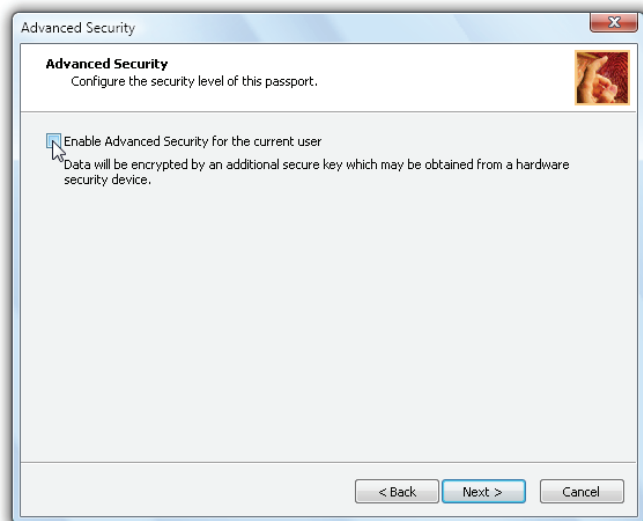
- Press the Initialize TPM button and wait. You will be prompted when the operation completes successfully.
- Press the Finish button and you will be returned to the main Control Center window.



- Expand the Fingerprints menu and select Enroll or Edit Fingerprints.



- Follow the procedure as before until you reach the Advanced Security window.
- Ensure that the Enable Advanced Security for the current user box is checked and then continue until enrollment is completed.



- Encryption will now be enabled for this user.
- Set the Advanced Security type.

- Set the backup password. This backup password can be used in case of hardware failure to bypass the fingerprint authentication. We recommend using a strong complex password. If you do not define the backup password, you can lose your data in case of authentication hardware failure.



Using boot security

- 1 Boot Security protects your computer by subjecting boot-ups to fingerprint identification. To use this function, select **"Enable Boot Security"** in the User Enrollment application window.
- 2 Boot Security can also be enabled at a later date via the Settings menu.

Fingerprint system boot authentication

The fingerprint authentication system can be used to replace the keyboard-based User Password authentication system when booting up.

If you do not want to use the fingerprint authentication system for password authentication when booting up, but prefer to use the keyboard-based system instead, press the ESC key when the fingerprint system boot authentication screen is displayed. This will switch the password input screen to the keyboard-based one.

How to Enable Fingerprint System Boot Authentication

Settings

It is necessary to first enroll your fingerprint with the Protector Suite QL application prior to enabling and configuring the Fingerprint Power-on Security System.

Check that your fingerprint is enrolled before configuring the settings. See Manual for Fingerprint Registration/Enrollment instructions.

Swipe your finger across the fingerprint reader.

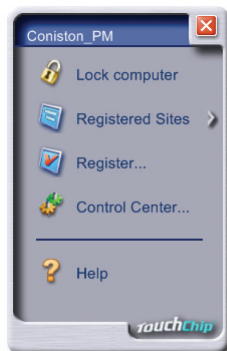


Note: It is necessary to register the Supervisor/User Password before using the Fingerprint Power-on Security and its extended function, the Fingerprint Single Sign-On Feature. Please use BIOS set-up manual Setup to register the supervisor/user Password.

Biomenu

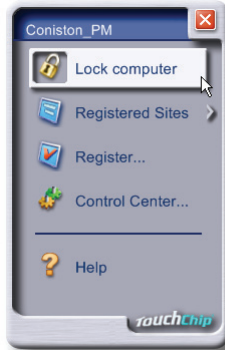
Biomenu is a powerful tool to access Protector Suite's features and settings. Swipe your finger open Biomenu. To display Biomenu in a situation when finger verification invokes another action (e.g. a registered page is replayed), hold **Shift** when using the sensor.

Protector Suite supports fingerprint navigation. You can use your fingerprint sensor instead of a mouse to move (navigate) through the Protector Suite's Biomenu.



Lock computer

The first menu item contains the Lock computer command which locks your computer. Swipe your finger over the sensor to unlock the computer again.



Registered Sites

Displays a list of your web pages registered by Password Bank. To display and fill in a registered page in your default web browser, click the web page name in the list.



Register

Registers a new window (dialog or web page). You are logged on to the computer and want to register a new web page or a dialog.

To create a new registration:

- Display a web page or a dialog you want to register.
- Fill in the data that you want to be replayed when you visit the web page/dialog and swipe your finger in the future.
- Use the sensor to display the Biomenu.
- Select Register.



Password Bank recognizes pages containing a password field and displays a hint that the page can be registered. These hints can be turned off in the Settings dialog.

A wizard will assist you through your first registration.

Supported browsers:

- Internet Explorer 5.0 and higher
- Mozilla 1.3 - 1.7
- Netscape 7.0 - 8.0.4
- Firefox 1.0 - 1.5



Note: The Password Bank stores registrations of your web pages and dialogs so that you can access frequent webpages (webmail, bank accounts, ecommerce, etc.) securely, without the hassle of re-entering passwords and form data. You enter the required information only once, during web page or dialog registration. When the window is displayed again, you can enter all the data by using the sensor. Registered web pages can be accessed also directly from the Biomenu.

Control Center

The Control Center contains various functions for fingerprint management and setting up your fingerprint software. Accessible options depend on the software status, hardware used, and installed applications.



How to restore your data from systemboard crash?

When the system is crashed by accident, please use the back-up TPM key and supervisor password to restore the data protected by Fingerprint and eDataSecurity.

Restore your data from emergency condition:

Condition	How to access the data protected using TPM-based Fingerprint and eDataSecurity ?
Motherboard crash	restore data with the back-up TPM key when a new motherboard is back
System crash	restore the Supervisor password and TPM key to the new system to unlock the data protected by TPM-based Fingerprint and eDataSecurity.

Using the SmartCard

This software includes the following components: PlatinumPAS™, PlatinumSecure™ and PlatinumKey™. Together, they provide you with multiple levels of security.

- PlatinumPAS implements the first security measure at the BIOS level and runs during the BIOS routine check when a computer is powered up or rebooting. If no SmartCard or Emergency Card is detected, the computer will stop booting up to prevent any illegal access to the system.
- PlatinumSecure enhances the secure logon procedure for your Windows at the operating system level. It provides user authentication through its encryption/decryption function using the SmartCard. If your SmartCard is unavailable, you can use the Emergency Card as a temporary replacement card.
- PlatinumKey auto-authenticate and auto cache with one-click logons to all password-required websites (patent pending), eliminates the overhead costs associated with memorizing and typing user IDs and passwords when surfing the Internet with Microsoft® or Netscape web browsers.

A slot for your SmartCard is located on the left panel of the computer. This new security feature helps you boot up your computer with all your settings built right into your SmartCard. You don't have to remember your password to access your computer.



To remove the SmartCard first press the SmartCard (a) and remove the SmartCard (b) as shown in the illustration below.



For more details consult your SmartCard documentation.

Registering your SmartCard



Important! Your Acer notebook is equipped with a SmartCard security feature that protects the computer from unauthorized access. If you enable this feature, please make sure that your warranty card is completed and sent back to Acer. This information will be used by Acer service centers to confirm ownership in case your SmartCard "key" is lost or damaged. Registering your notebook with Acer's service center is extremely important when replacing your lost SmartCard "key".

If you have already bypassed the SmartCard registration, please reinstall the application as follows:

- 1 Insert your **System CD** and reinstall from it.
- 2 Follow the onscreen instructions.

To enable the SmartCard security feature, please refer to your SmartCard user manual.

Running PlatinumSecure

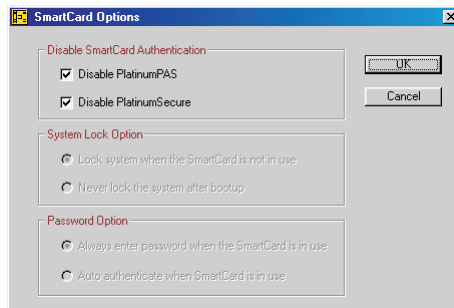
PlatinumSecure enhances the secure logon procedure for Windows® 2000 or XP at the operating system level. It provides user authentication with an encryption/decryption function using the SmartCard. If your SmartCard is unavailable, the Emergency Card can serve as a temporary replacement for the SmartCard. After installation, the PlatinumSecure icon appears on the Windows desktop.

Double-click on it or click the right mouse button, then select **Open** from the pop-up menu (or launch it from the PlatinumSecret program group). From the menu that appears, you can directly access three operations: PlatinumSecure Options, SmartCard Manager and Change Password.



PlatinumSecure Options

Click on the **PlatinumSecure Options** button to open the SmartCard Options window. It provides great flexibility to meet the various privacy protection needs of many different users.



- Disable SmartCard Authentication

When **Disable PlatinumPAS** is selected, the PlatinumPAS Preboot Authentication System will be disabled.

When **Disable PlatinumSecure** is selected, the PlatinumSecure Windows Logon Authentication with the SmartCard will be disabled, which means that the protection of your notebook as well as other options under **System Lock Option** and **Password Option** will be disabled, too. The SmartCard password is required for this selection.

- System Lock Option

When **Lock system when the SmartCard is not in use** (default) is selected, if the SmartCard is removed, the PlatinumSecure screensaver comes up and access to the system is locked. When **Never lock the system after bootup** is selected, there is no protection for the notebook after boot up, and Password Option is disabled.

- Password Option

When **Always enter password when the SmartCard is in use** (default) is selected, the password is required whenever you need to regain access to the system while the SmartCard is inserted. When **Auto authenticate when SmartCard is in use** is selected, no password is required. All you need to do is insert the SmartCard.

SmartCard Manager

The Multiple user support is implemented and managed in SmartCard Manager. Please note that five users can be registered on one notebook. If you registered as the Primary User, **ONLY** you can add/remove other users. If you registered as a regular user, other registered users could add/remove you. All registered users will be able to use the View SmartCard users option.

Change Password

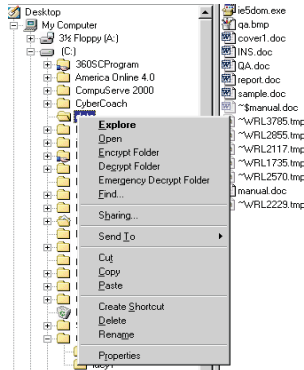
Click the **Change Password** button, fill in the three fields in the Change Password dialog box, and then close the dialog box by clicking the **OK** button to change the SmartCard password.

Encrypt/Decrypt

PlatinumSecure can also be used to encrypt/decrypt files except for system files or files that are already encrypted with other applications. Double-click on a file to automatically encrypt/decrypt it. However, if the file is associated with an application, it will be opened with that application instead of being encrypted. Note that the encryption is not recursive, i.e., when you encrypt a folder, only the files immediately under that folder are encrypted. Other files under subfolders are not.

To find the Encrypt/Decrypt commands:

- Right-click on the Start menu,
- Right-click on a folder or icon on your Windows desktop, or
- In Windows Explorer, right-click on a selected folder, file, or group of files.



Running PlatinumKey

PlatinumKey provides one-click logon to all password-required websites. With its unique SmartCard caching technology, you can greatly extend the limited card memory size to unlimited use by storing your private data in an encrypted file either on the SmartCard, or on the 360 Degree Web secure website server.

Information in PlatinumKey like the one in My Info and Credit Cards, can be transferred to other applications using the "drag-and-drop" method: simply point the cursor to the field containing the information, press and hold the left mouse button, then drag the cursor to the application and drop the information there.

PlatinumKey also makes it convenient to change your password. There is always a PWD button available, which is equivalent to the Change Password button in PlatinumSecure.

Follow these steps to use PlatinumKey:

- 1 Open your browser to connect to the Internet.
- 2 Double-click on the PlatinumKey icon on your Windows desktop.
- 3 Enter your SmartCard password and click **OK**.
- 4 If PlatinumKey is being used for the very first time, it will ask "Would you like to link to 360 Degree Web secure website server"

to backup the information on your SmartCard?" The default answer is Yes, and it will enable you to store your information (excluding the Credit Cards) on the 360 Degree Web secure website server for backup purposes in case the card is lost/stolen. If you choose No, you will only be able to save My Info, Credit Cards and 5 Websites on your SmartCard.

- 5 Log in to a website where you are already registered.
- 6 PlatinumKey automatically stores your login data and asks for your confirmation to automatically log you in the next time you access the site. Click **Yes** and continue browsing.
- 7 To close PlatinumKey when you are finished browsing, right-click on the PlatinumKey icon on your Windows taskbar and select Close PlatinumKey.

PlatinumKey provides a list of all the logon pages that you have stored. To go directly to any site on the list either double-click it or select it and click the Go button. Also, you can click the View button to view the selected website information including Web Name, User Name, Password, and Web URL. Similarly, type the first letter(s) of a site on the list, and the site will be searched and selected.

You can Edit and Delete the sites as well as other information, and Save or Cancel the changes you made, by selecting the button corresponding to each command.

Using passwords

Passwords protect your computer from unauthorized access. Setting these passwords creates several different levels of protection for your computer and data:

- Supervisor Password prevents unauthorized entry into the BIOS Utility. Once set, you must key-in this password to gain access to the BIOS Utility.
- User Password secures your computer against unauthorized use. Combine the use of this password with password checkpoints on boot-up and resume from hibernation for maximum security.
- Password on Boot secures your computer against unauthorized use. Combine the use of this password with password checkpoints on boot-up and resume from hibernation for maximum security.
- Hard Disk Password protects your data by preventing unauthorized access to your hard disk. Even if the hard disk is removed from the computer and moved to another computer, it cannot be accessed without the Hard Disk Password.



Important! Be sure to well record your Acer Supervisor and Hard Disk password. If you forget your password, please contact with Acer Customer Service.

Entering passwords

When a password is set, a password prompt appears in the left-hand corner of the display screen.

- When the Supervisor Password is set, a prompt appears when you press **F2** to enter the BIOS Utility at boot-up.
- Type the Supervisor Password and press **Enter** to access the BIOS Utility. If you enter the password incorrectly, a warning message appears. Try again and press **Enter**.
- When the User Password is set and the Password on boot parameter is enabled, a prompt appears at boot-up.
- Type the User Password and press **Enter** to use the computer. If you enter the password incorrectly, a warning message appears. Try again and press **Enter**.
- When the Hard Disk Password is set, a prompt appears at boot-up.
- Type the Hard Disk Password and press **Enter** to use the computer. If you enter the password incorrectly, a warning message appears. Try again and press **Enter**.



Important! You have three chances to enter a password. If you fail to enter the password correctly after three tries, the system halts. Slide and hold the power button for four seconds to shut down the computer. Then turn on the computer again, and try again. If you fail to enter the Hard Disk Password, please contact your dealer or an authorized service center.

Setting passwords

You can set passwords using the BIOS Utility.

BIOS utility

The BIOS utility is a hardware configuration program built into your computer's BIOS.

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run it.

To activate the BIOS utility, press <F2> during the POST; while the notebook PC logo is being displayed.

Boot sequence

To set the boot sequence in the BIOS utility, activate the BIOS utility, then select **Boot** from the categories listed at the top of the screen.

Password on boot

To set a password on boot, activate the BIOS utility, then select **Security** from the categories listed at the top of the screen. Find **Password on boot:** and use the <F5> and <F6> keys to enable this feature.

Setting up passwords when using fingerprint recognition

To change BIOS settings, the user must log in using the supervisor password, even if fingerprint PBA (pre-boot authentication) or PlatinumPAS is enabled.

Pre-boot authentication

Fingerprint PBA disabled:

- a If the user has set up a supervisor or user password, but "password on boot" is disabled, s/he will not need to enter any password when booting unless the HDD password has been set up.
- b If the user has set up a supervisor or user password, and "password on boot" is enabled, s/he will need to enter the supervisor/user password when booting. Moreover, the HDD password is needed if the user has set up an HDD password under BIOS.

Fingerprint PBA enabled:

- a Fingerprint PBA is only functional when both the supervisor and user passwords are enabled; however, users don't need to set up "password on boot" under BIOS, so they can finish both supervisor and user password setup by using Acer eSettings Management.
- b Once the user's fingerprint is matched, the system will boot the operating system without requiring a password. If users want advanced pre-boot security, HDD password and PlatinumPAS should be enabled; then users will see sequential PlatinumPAS, fingerprint PBA, and HDD password dialogs when the system boots up.
- c If the user's fingerprint does not match, the supervisor/user password dialog box will appear, no matter whether or not "password on boot" is enabled. Users can press ESC to activate the password dialog box without fingerprint scanning.

Enabling or disabling Acer TPM security



Note: Before you enable or disable Acer TPM (Trusted Platform Module), the supervisor password must have been set.

Activate the BIOS utility then select **Security** from the categories listed at the top of the screen. Find **Current TPM State** at the bottom of the screen and use the **<F5>** and **<F6>** keys to set this value to **Enable & Activate** or **Deactivate & Disable**.

Your system will activate the BIOS utility automatically after rebooting, then enter Acer TPM management security setup. Please select **Execute** to confirm or **Reject** to skip your selection.



Note: During boot up additional time is required to initialize the TPM layer, as a result you may find that boot times become slightly longer with TPM enabled.

Enabling disk-to-disk recovery

To enable disk-to-disk recovery (hard disk recovery), activate the BIOS utility, then select **Main** from the categories listed at the top of the screen. Find **D2D Recovery** at the bottom of the screen and use the <F5> and <F6> keys to set this value to **Enabled**.

Frequently asked questions

The following is a list of possible situations that may arise during the use of your computer. Easy solutions are provided for each one.

I turned on the power, but the computer does not start or boot up.

Look at the power indicator:

- If it is not lit, no power is being supplied to the computer. Check the following:
 - If you are using on the battery, it may be low and unable to power the computer. Connect the AC adapter to recharge the battery pack.
 - Make sure that the AC adapter is properly plugged into the computer and to the power outlet.
- If it is lit, check the following:
 - Is a non-bootable (non-system) disk in the external USB floppy drive? Remove or replace it with a system disk and press **<Ctrl> + <Alt> + ** to restart the system.

Nothing appears on the screen.

The computer's power management system automatically blanks the screen to save power. Press any key to turn the display back on.

If pressing a key does not turn the display back on, three things might be the cause:

- The brightness level might be too low. Press **<Fn> + <→>** (increase) to adjust the brightness level.
- The display device might be set to an external monitor. Press the display toggle hotkey **<Fn> + <F5>** to toggle the display back to the computer.
- If the Sleep indicator is lit, the computer is in Sleep mode. Press and release the power button to resume.

Image is not full-screen.

Each computer display has a different native resolution depending on the screen. If you set the resolution lower than this native resolution, the screen expands to fill the computer display. Right-click on your Windows desktop and select **Properties** to bring up the "Display Properties" dialog box. Then click on the **Settings** tab to make sure that the resolution is set to the appropriate resolution. Resolutions lower than the specified resolution are not full-screen on the computer or on an external monitor.

No audio is heard from the computer.

Check the following:

- The volume may be muted. In Windows, look at the volume control (speaker) icon on the taskbar. If it is crossed-out, click on the icon and deselect the **Mute all** option.
- The volume level may be too low. In Windows, look at the volume control icon on the taskbar. You can also use the volume control buttons to adjust the volume. See "Hotkeys" on page 41 for more detail.
- If headphones, earphones or external speakers are connected to the line-out port on the computer, the internal speakers automatically turn off.

I want to eject the optical drive tray without turning on the power.

There is a mechanical eject hole on the optical drive. Simply insert the tip of a pen or paperclip into the hole and push to eject the tray. (If your computer's optical drive is a slot-load model, it will not have an eject hole.)

The keyboard does not respond.

Try attaching an external keyboard to a USB port on the computer. If it works, contact your dealer or an authorized service center as the internal keyboard cable may be loose.

The infrared port does not work.

Check the following:

- Make sure that the infrared ports of the two devices are facing each other (+/- 15 degrees) a maximum of 1 meter apart.
- Make sure there is a clear path between the two infrared ports. Nothing should be blocking the ports.
- Make sure you have the appropriate software running on both devices (for file transfers) or you have the appropriate drivers (for printing to an infrared printer).
- During the POST, press <F2> to access the BIOS utility and verify that the infrared port is enabled.
- Make sure both devices are IrDA-compliant.

The printer does not work.

Check the following:

- Make sure that the printer is connected to a power outlet and that it is turned on.
- Make sure that the printer cable is connected securely to the computer's parallel port or a USB port and the corresponding port on the printer.

I want to set up my location to use the internal modem.

To properly use your communication software (e.g. HyperTerminal), you need to set up your location:

- 1 Click on **Start, Settings, Control Panel**.
- 2 Double-click on **Phone and Modem Options**.
- 3 Click on **Dialing Rules** and begin setting up your location.

Refer to the Windows manual.



Note: Please note, on first booting your notebook, that you can skip the Internet Connection setup, as it is not necessary to complete the installation of your Operating System. After the Operating System is set up, you can proceed with the Internet Connection setup.

I want to restore my computer to its original settings without recovery CDs.



Note: If your system is the multilingual version, the operating system and language you choose when you first turn on the system will be the only option for future recovery operations.

This recovery process helps you restore the C: drive with the original software content that is installed when you purchase your notebook. Follow the steps below to rebuild your C: drive. (Your C: drive will be reformatted and all data will be erased.) It is important to back up all data files before using this option.

Before performing a restore operation, please check the BIOS settings.

- 1 Check to see if **Acer disk-to-disk recovery** is enabled or not.
- 2 Make sure the **D2D Recovery** setting in **Main** is **Enabled**.
- 3 Exit the BIOS utility and save changes. The system will reboot.



Note: To activate the BIOS utility, press **<F2>** during POST.

To start the recovery process:

- 1 Restart the system.
- 2 While the Acer logo is showing, press <Alt> + <F10> at the same time to enter the recovery process.
- 3 Refer to the onscreen instructions to perform system recovery.



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Important! This feature occupies 10 GB in a hidden partition on your hard disk.

Requesting service

International Travelers Warranty (ITW)

Your computer is backed by an International Travelers Warranty (ITW) that gives you security and peace of mind when traveling. Our worldwide network of service centers are there to give you a helping hand.

An ITW passport comes with your computer. This passport contains all you need to know about the ITW program. A list of available, authorized service centers is in this handy booklet. Read this passport thoroughly.

Always have your ITW passport on hand, especially when you travel, to receive the benefits from our support centers. Place your proof-of-purchase in the flap located inside the front cover of the ITW passport.

If the country you are traveling in does not have an Acer-authorized ITW service site, you can still get in contact with our offices worldwide. Please consult <http://global.acer.com>.

Before you call

Please have the following information available when you call Acer for online service, and please be at your computer when you call. With your support, we can reduce the amount of time a call takes and help solve your problems efficiently. If there are error messages or beeps reported by your computer, write them down as they appear on the screen (or the number and sequence in the case of beeps).

You are required to provide the following information:

Name: _____

Address: _____

Telephone number: _____

Machine and model type: _____

Serial number: _____

Date of purchase: _____

Battery pack

The computer uses a battery pack that gives you long use between charges.

Battery pack characteristics

The battery pack has the following characteristics:

- Employs current battery technology standards.
- Delivers a battery-low warning.

The battery is recharged whenever you connect the computer to the AC adapter. Your computer supports charge-in-use, enabling you to recharge the battery while you continue to operate the computer. However, recharging with the computer turned off results in a significantly faster charge time.

The battery will come in handy when you travel or during a power failure. It is advisable to have an extra fully charged battery pack available as backup. Contact your dealer for details on ordering a spare battery pack.

Maximizing the battery's life

Like all other batteries, your computer's battery will degrade over time. This means that the battery's performance will diminish with time and use. To maximize your battery's life, you are advised to adhere to the recommendations set out below.

Conditioning a new battery pack

Before you use a battery pack for the first time, there is a "conditioning" process that you should follow:

- 1 Insert the new battery without turning the computer on.
- 2 Connect the AC adapter and fully charge the battery.
- 3 Disconnect the AC adapter.
- 4 Turn on the computer and operate using battery power.
- 5 Fully deplete the battery until the battery-low warning appears.
- 6 Reconnect the AC adapter and fully charge the battery again.

Follow these steps again until the battery has been charged and discharged three times.

Use this conditioning process for all new batteries, or if a battery hasn't been used for a long time. If the computer is to be stored for more than two weeks, you are advised to remove the battery pack from the unit.



Warning: Do not expose battery packs to temperatures below 0°C (32°F) or above 45°C (113°F). Extreme temperatures may adversely affect the battery pack.

By following the battery conditioning process you condition your battery to accept the maximum possible charge. Failure to follow this procedure will prevent you from obtaining the maximum battery charge, and will also shorten the effective lifespan of the battery.

In addition, the useful lifespan of the battery is adversely affected by the following usage patterns:

- Using the computer on constant AC power with the battery inserted. If you want to use constant AC power, you are advised to remove the battery pack after it is fully charged.
- Not discharging and recharging the battery to its extremes, as described above.
- Frequent use; the more you use the battery, the faster it will reach the end of its effective life. A standard computer battery has a life span of about 300 charges.

Installing and removing the battery pack



Important! Before removing the battery from the unit, connect the AC adapter if you want to continue using your computer. Otherwise, turn off the computer first.

To install a battery pack:

- 1 Align the battery with the open battery bay; make sure that the end with the contacts will enter first, and that the top surface of the battery is facing up.
- 2 Slide the battery into the battery bay and gently push until the battery locks in place.

To remove a battery pack:

- 1 Slide the battery release latch to release the battery.
- 2 Pull the battery from the battery bay.

Charging the battery

To charge the battery, first make sure that it is correctly installed in the battery bay. Plug the AC adapter into the computer, and connect to a mains power outlet. You can continue to operate your computer on AC power while your battery is charging. However, charging the battery with the computer turned off results in a significantly faster charge time.



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Note: You are advised to charge the battery before retiring for the day. Charging the battery overnight before traveling enables you to start the next day with a fully charged battery.

Checking the battery level

The Windows power meter indicates the current battery level. Rest the cursor over the battery/power icon on the taskbar to see the battery's present charge level.

Optimising battery life

Optimizing battery life helps you get the most out of battery operation, prolonging the charge/recharge cycle and improving recharging efficiency. You are advised to follow the suggestions set out below:

- Purchase an extra battery pack.
- Use AC power whenever possible, reserving battery for on-the-go use.
- Eject a PC Card if it is not being used, as it will continue to draw power (for selected model).
- Store the battery pack in a cool, dry place. The recommended temperature is 10°C to 30°C. Higher temperatures cause the battery to self-discharge faster.
- Excessive recharging decreases the battery life.
- Look after your AC adapter and battery.

Battery-low warning

When using battery power pay attention to the Windows power meter.



Warning: Connect the AC adapter as soon as possible after the battery-low warning appears. Data will be lost if the battery becomes fully depleted and the computer shuts down.

When the battery-low warning appears, the recommended course of action depends on your situation:

Situation	Recommended Action
The AC adapter and a power outlet are available.	<ol style="list-style-type: none"> 1. Plug the AC adapter into the computer, and then connect to the mains power supply. 2. Save all necessary files. 3. Resume work. <p>Turn off the computer if you want to recharge the battery rapidly.</p>
An extra fully charged battery pack is available.	<ol style="list-style-type: none"> 1. Save all necessary files. 2. Close all applications. 3. Shut down the operating system to turn off the computer. 4. Replace the battery pack. 5. Turn on the computer and resume work.
The AC adapter or a power outlet is unavailable. You have no spare battery pack.	<ol style="list-style-type: none"> 1. Save all necessary files. 2. Close all applications. 3. Shut down the operating system to turn off the computer.

Taking your notebook PC with you

This section gives you tips and hints to consider when moving around or traveling with your computer.

Disconnecting from the desktop

Follow these steps to disconnect your computer from external accessories:

- 1 Save any open files.
- 2 Remove any media, floppy disks or compact disks from the drive(s).
- 3 Shut down the computer.
- 4 Close the display cover.
- 5 Disconnect the cord from the AC adapter.
- 6 Disconnect the keyboard, pointing device, printer, external monitor and other external devices.
- 7 Disconnect the Kensington lock if you are using one to secure the computer.

Disconnecting from Acer ezDock II/II+

Follow these steps to disconnect your computer from Acer ezDock II/II+:

- 1 Make sure that the battery pack is charged enough for normal operation.
- 2 Make sure the security lock key of ezDock II/II+ is in place and in the unlocked position.
- 3 Press the undock button until the computer moves up.
- 4 Grasping both sides of the computer, remove the computer from the ezDock.

Moving around

When you are just moving within short distances, for example, from your office desk to a meeting room.

Preparing the computer

Before moving the computer, close and latch the display cover to place it in Sleep mode. You can now safely take the computer anywhere you go within the building. To bring the computer out of Sleep mode, open the display; then press and release the power button.

If you are taking the computer to a client's office or a different building, you may choose to shut down the computer:

Click on **Start, Turn Off Computer**, then click on **Turn Off** (Windows XP).

Or:

You can put the computer in Sleep mode by pressing **<Fn> + <F4>**. Then close and latch the display.

When you are ready to use the computer again, unlatch and open the display; then press and release the power button.



Note: If the Sleep indicator is off, the computer has entered Hibernation mode and is turned off. If the power indicator is off but the Sleep indicator is on, the computer has entered Sleep mode. In both cases, press and release the power button to turn the computer back on. Note that the computer may enter Hibernation mode after being in Sleep mode for a period of time.

What to bring to meetings

If your meeting is relatively short, you probably do not need to bring anything with you other than your computer. If your meeting will be longer, or if your battery is not fully charged, you may want to bring the AC adapter with you to plug in your computer in the meeting room.

If the meeting room does not have an electrical outlet, reduce the drain on the battery by putting the computer in Sleep mode. Press **<Fn> + <F4>** or close the display cover whenever you are not actively using the computer. To resume, open the display (if closed), then press and release the power button.

Taking the computer home

When you are moving from your office to your home or vice versa.

Preparing the computer

After disconnecting the computer from your desktop, follow these steps to prepare the computer for the trip home:

- Check that you have removed all media and compact disks from the drive(s). Failure to remove the media can damage the drive head.
- Pack the computer in a protective case that can prevent the computer from sliding around and cushion it if it should fall.



Caution: Avoid packing items next to the top cover of the computer. Pressure against the top cover can damage the screen.

What to take with you

Unless you have some items at home, take the following items with you:

- AC adapter and power cord
- The printed User's Guide

Special considerations

Follow these guidelines to protect your computer while traveling to and from work:

- Minimize the effects of temperature changes by keeping the computer with you.
- If you need to stop for an extended period of time and cannot carry the computer with you, leave the computer in the trunk of the car to avoid exposing the computer to excessive heat.
- Changes in temperature and humidity can cause condensation. Allow the computer to return to room temperature, and inspect the screen for condensation before turning on the computer. If the temperature change is greater than 10 °C (18 °F), allow the computer to come to room temperature slowly. If possible, leave the computer for 30 minutes in an environment with a temperature between outside and room temperature.

Setting up a home office

If you frequently work on your computer at home, you may want to purchase a second AC adapter for use at home. With a second AC adapter, you can avoid carrying the extra weight to and from home.

If you use your computer at home for significant periods of time, you might also want to add an external keyboard, monitor or mouse.

Traveling with the computer

When you are moving within a larger distance, for instance, from your office building to a client's office building or traveling locally.

Preparing the computer

Prepare the computer as if you were taking it home. Make sure that the battery in the computer is charged. Airport security may require you to turn on your computer when carrying it into the gate area.

What to take with you

Take the following items with you:

- AC adapter
- Spare, fully-charged battery pack(s)
- Acer MediaBay battery pack
- Additional printer driver files if you plan to use another printer

Special considerations

In addition to the guidelines for taking the computer home, follow these guidelines to protect your computer while traveling:

- Always take the computer as carry-on luggage.
- If possible, have the computer inspected by hand. Airport security X-ray machines are safe, but do not put the computer through a metal detector.
- Avoid exposing floppy disks to hand-held metal detectors.

Traveling internationally with the computer

When you are moving from country to country.

Preparing the computer

Prepare the computer as you would normally prepare it for traveling.

What to bring with you

Bring the following items with you:

- AC adapter
- Power cords that are appropriate for the country to which you are traveling
- Spare, fully-charged battery packs
- Acer MediaBay battery packs
- Additional printer driver files if you plan to use another printer

- Proof of purchase, in case you need to show it to customs officials
- International Travelers Warranty passport

Special considerations

Follow the same special considerations as when traveling with the computer. In addition, these tips are useful when traveling internationally:

- Turn your system the wireless LAN function off for flight security when you are on the airplane.
- When traveling in another country, check that the local AC voltage and the AC adapter power cord specifications are compatible. If not, purchase a power cord that is compatible with the local AC voltage. Do not use converter kits sold for appliances to power the computer.
- If you are using the modem, check if the modem and connector is compatible with the telecommunications system of the country you are traveling in.

Expanding through options

Your notebook PC offers you a complete mobile computing experience.

Connectivity options

Ports allow you to connect peripheral devices to your computer as you would with a desktop PC. For instructions on how to connect different external devices to the computer, read the following section.

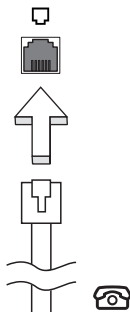
Fax/data modem

Your computer has a built-in V.92 56 Kbps fax/data modem.



Warning! This modem port is not compatible with digital phone lines. Plugging this modem into a digital phone line will damage the modem.

To use the fax/data modem port, connect a phone cable from the modem port to a telephone jack.

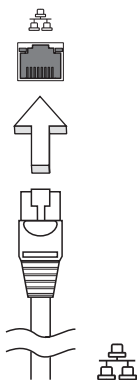


Warning! Please make sure that the cable you use is appropriate for the country in which you are working.

Built-in network feature

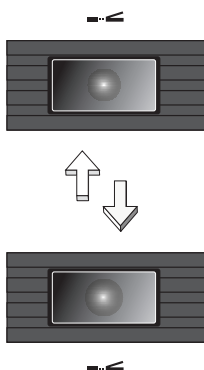
The built-in network feature allows you to connect your computer to an Ethernet-based network.

To use the network feature, connect an Ethernet cable from the Ethernet (RJ-45) port on the chassis of the computer to a network jack or hub on your network.



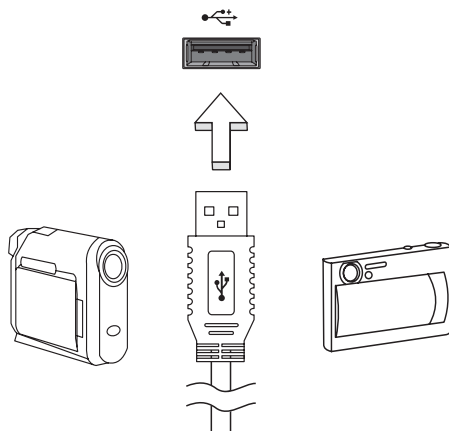
Fast Infrared (FIR)

The computer's Fast Infrared (FIR) port allows you to do wireless data transfer with other IR-aware computers and peripherals such as PDAs, mobile phones, and infrared printers. The infrared port can transfer data at speeds of up to 4 Mbps at a distance of up to one meter.



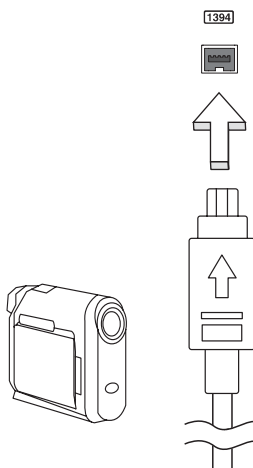
Universal Serial Bus (USB)

The USB 2.0 port is a high-speed serial bus which allows you to connect USB peripherals without taking up precious system resources.



IEEE 1394 port

The computer's IEEE 1394 port allows you to connect to an IEEE 1394-compatible device like a video camera or digital camera. See your video or digital camera's documentation for details.



PC Card slot

The Type II PC Card slot of the computer accepts PC Cards that enhance the usability and expandability of the computer. These cards should have a PC Card logo on them.

PC Cards (formerly PCMCIA) are add-on cards for portable computers, giving you expansion possibilities long afforded by desktop PCs. Popular PC Cards include flash, fax/data modem, wireless LAN and SCSI cards. CardBus improves on the 16-bit PC card technology by expanding the bandwidth to 32 bits.

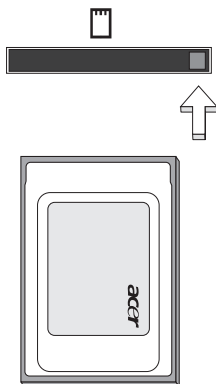


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Note: Refer to your card's manual for details on how to install and use the card, and its functions.

Inserting a PC Card

Insert the card into the slot and make the proper connections (e.g., network cable), if necessary. See your card manual for details.



Ejecting a PC Card

Before ejecting a PC Card:

- 1 Exit the application using the card.
- 2 Left-click on the PC Card icon on the taskbar and stop the card operation.
- 3 Press the slot eject button to pop out the eject button; then press it again to eject the card.

ExpressCard

The ExpressCard is the newest version of the PC Card. It is a smaller and faster interface that further enhances the usability and expandability of your computer.

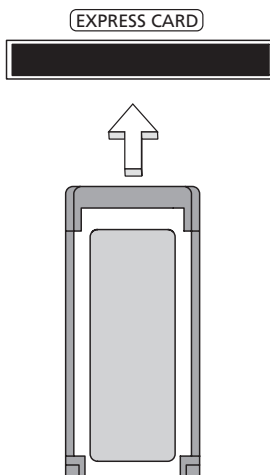
ExpressCards support a vast number of expansion options, including flash memory card adapters, TV-tuners, Bluetooth connectivity and IEEE 1394B adapters. ExpressCards support USB 2.0 and PCI Express applications.



Important! There are two types, ExpressCard/54 and ExpressCard/34 (54mm and 34mm), each with different functions. Not all ExpressCard slots will support both types. Please refer to your card's manual for details on how to install and use the card, and its functions.

Inserting an ExpressCard

Insert the card into the slot and push gently until it clicks into position.



Ejecting an ExpressCard

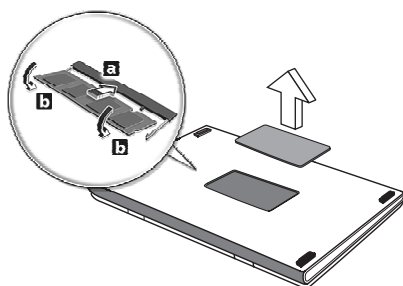
Before ejecting an ExpressCard:

- 1 Exit the application using the card.
- 2 Left-click on the remove hardware icon on the taskbar and stop the card operation.
- 3 Push the card gently into the slot and release to pop out the card. Then pull the card free from the slot.

Installing memory

Follow these steps to install memory:

- 1 Turn off the computer, unplug the AC adapter (if connected) and remove the battery pack. Then turn the computer over to access its base.
- 2 Remove the screws from the memory cover; then lift up and remove the memory cover.
- 3 **(a)** Insert the memory module diagonally into the slot, then **(b)** gently press it down until it clicks into place.



- 4 Replace the memory cover and secure it with the screw.
- 5 Reinstall the battery pack, and reconnect the AC adapter.
- 6 Turn on the computer.

The computer automatically detects and reconfigures the total memory size. Please consult a qualified technician or contact your local Acer dealer.

Using software

Playing DVD movies

When the DVD drive module is installed in the optical drive bay, you can play DVD movies on your computer.

- 1 Eject the DVD tray and insert a DVD movie disk; then close the DVD tray.



Important! When you launch the DVD player for the first time, the program asks you to enter the region code. DVD disks are divided into 6 regions. Once your DVD drive is set to a region code, it will play DVD disks of that region only. You can set the region code a maximum of five times (including the first time), after which the last region code set will remain permanent. Recovering your hard

disk does not reset the number of times the region code has been set. Refer to the table below for DVD movie region code information.

- 2 The DVD movie will automatically play after a few seconds.

Region code	Country or region
1	USA, Canada
2	Europe, Middle East, South Africa, Japan
3	Southeast Asia, Taiwan, South Korea
4	Latin America, Australia, New Zealand
5	Former USSR, parts of Africa, India
6	People's Republic of China



Note: To change the region code, insert a DVD movie of a different region into the DVD drive. Please refer to the online help for more information.

Power management

This computer has a built-in power management unit that monitors system activity. System activity refers to any activity involving one or more of the following devices: keyboard, mouse, hard disk, peripherals connected to the computer, and video memory. If no activity is detected for a period of time (called an inactivity timeout), the computer stops some or all of these devices in order to conserve energy.

This computer employs a power management scheme that supports the advanced configuration and power interface (ACPI), which allows for maximum power conservation and maximum performance at the same time. Windows handles all power-saving chores for your computer.

Acer eRecovery Management

Acer eRecovery Management is a tool to quickly backup and restore the system. You can create and save a backup of the current system configuration to hard disk, CD or DVD. You can also backup/restore the factory default image, and reinstall applications and drivers.

Acer eRecovery Management consists of the following functions:

- 1 Create backup
- 2 Burn backup disc
- 3 Restore and recovery

This chapter will guide you through each process.



Note: This feature is only available on certain models. For systems that do not have a built-in optical disc burner, plug in an external optical disc burner before entering Acer eRecovery Management for optical disc-related tasks.

When using Acer eRecovery Management, you may be prompted to enter the Empowering Technology password to proceed. The Empowering Technology password is set using the Empowering Technology toolbar or when first running Acer eLock Management or Acer eRecovery Management.

Create backup

You can easily create full and fast (incremental) backup images of your system configuration to hard disk from the main Acer eRecovery Management screen.



Note: Fast (incremental) Backup is only available after a Full Backup is made.

- 1 Press **<Alt> + <F10>** or select Acer eRecovery Management from the Empowering Technology toolbar to start Acer eRecovery Management.
- 2 In the Acer eRecovery Management window, select the type of backup you want to create using **Full** or **Fast**.
- 3 Follow the instructions on screen to complete the process.

Burn backup disc

Using the **Burn Disc** page of Acer eRecovery Management, you can burn the factory default image, a user backup image, the current system configuration, or an application backup image to CD or DVD.

- 1 Press **<Alt> + <F10>** or select Acer eRecovery Management from the Empowering Technology toolbar to start Acer eRecovery Management.
- 2 Switch to the Burn Disc page by selecting the **Burn Disc** button.
- 3 Select the type of backup (factory default, user, current system, application) you would like to burn to disc. Choosing to burn a user backup will burn your most recently created backup image to disc.
- 4 Follow the instructions on screen to complete the process.



.....

Note: Create a factory default image when you want to burn a bootable disc that contains your computer's entire operating system as it was delivered to you from the factory. If you wish to have a disc that will allow you to browse the contents and install selected drivers and applications, create an application backup image instead — this disc will not be bootable.

Restore and recovery

The restore and recovery features allow you to restore or recover the system from a factory default image, from a user created image, or from previously created CD and DVD backups. You can also reinstall applications and drivers for your Acer system.

- 1 Press **<Alt> + <F10>** or select Acer eRecovery Management from the Empowering Technology toolbar to start Acer eRecovery Management.
- 2 Switch to the restore and recovery page by selecting the **Restore** button.
- 3 Select the backup point you would like to restore from. You can also choose to recover the system from a factory default image, recover from a previously created CD/DVD or reinstall applications and drivers.
- 4 Follow the instructions on screen to complete the process.

Troubleshooting

This chapter shows you how to deal with common system problems. Read it before calling a technician if a problem occurs. Solutions to more serious problems require opening up the computer. Do not attempt to open the computer yourself; contact your dealer or authorized service center for assistance.

Troubleshooting tips

This notebook PC incorporates an advanced design that delivers onscreen error message reports to help you solve problems.

If the system reports an error message or an error symptom occurs, see "Error messages" below. If the problem cannot be resolved, contact your dealer. See "Requesting service" on page 73.

Error messages

If you receive an error message, note the message and take the corrective action. The following table lists the error messages in alphabetical order together with the recommended course of action.

Error messages	Corrective action
CMOS battery bad	Contact your dealer or an authorized service center.
CMOS checksum error	Contact your dealer or an authorized service center.
Disk boot failure	Insert a system (bootable) disk into the floppy drive (A:), then press <Enter> to reboot.
Equipment configuration error	Press <F2> (during POST) to enter the BIOS utility, then press Exit in the BIOS utility to reboot.
Hard disk 0 error	Contact your dealer or an authorized service center.
Hard disk 0 extended type error	Contact your dealer or an authorized service center.
I/O parity error	Contact your dealer or an authorized service center.
Keyboard error or no keyboard connected	Contact your dealer or an authorized service center.
Keyboard interface error	Contact your dealer or an authorized service center.
Memory size mismatch	Press <F2> (during POST) to enter the BIOS utility, then press Exit in the BIOS utility to reboot.

If you still encounter problems after going through the corrective measures, please contact your dealer or an authorized service center for assistance. Some problems may be solved using the BIOS utility.

Regulations and safety notices

FCC notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Notice: Peripheral devices

Only peripherals (input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this computer.

Operation conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference,

and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

Hereby, Acer, declares that this notebook PC series is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. (Please visit <http://global.acer.com/products/notebook/reg-nb/index.htm> for complete documents.)

Compliant with Russian regulatory certification



ME61

Modem notices

Notice for USA

This equipment complies with Part 68 of the FCC rules. Located on the modem is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. Upon request, you must provide this information to your telephone company.

If your telephone equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But, if advance notice is not practical, you will be notified as soon as possible. You will also be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If this equipment should fail to operate properly, disconnect the equipment from the phone line to determine if it is causing the problem. If the problem is with the equipment, discontinue use and contact your dealer or vendor.



Caution: To reduce the risk of fire, use only No. 26 AWG or larger UL Listed or CSA Certified Telecommunication Line Cord.

TBR 21

This equipment has been approved [Council Decision 98/482/EC - "TBR 21"] for single terminal connection to the Public Switched Telephone Network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN termination point. In the event of problems, you should contact your equipment supplier in the first instance.

List of applicable countries

EU member states as of May 2004 are: Belgium, Denmark, Germany, Greece, Spain, France, Ireland, Italy, Luxembourg, the Netherlands, Austria, Portugal, Finland, Sweden, United Kingdom Estonia, Latvia, Lithuania, Poland, Hungary, Czech Republic, Slovak Republic, Slovenia, Cyprus and Malta. Usage allowed in the countries of European Union, as well as Norway, Switzerland, Iceland and Liechtenstein. This device must be used in strict accordance with the regulations and constraints in the country of use. For further information, please contact local office in the country of use.

Notice for Australia

For safety reasons, only connect headsets with a telecommunications compliance label. This includes customer equipment previously labelled permitted or certified.

Notice for New Zealand

- 1 The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.
- 2 This equipment is not capable, under all operating conditions, of correct operation at the higher speeds for which it is designed. Telecom will accept no responsibility should difficulties arise in such circumstances.
- 3 Some parameters required for compliance with Telecom's Telepermit requirements are dependent on the equipment (PC) associated with this device. The associated equipment shall be set to operate within the following limits for compliance with Telecom's Specifications:
 - a There shall be no more than 10 call attempts to the same number within any 30 minute period for any single manual call initiation, and
 - b The equipment shall go on-hook for a period of not less than 30 seconds between the end of one attempt and the beginning of the next call attempt.
- 4 Some parameters required for compliance with Telecom's Telepermit requirements are dependent on the equipment (PC) associated with this device. In order to operate within the limits for compliance with Telecom's specifications, the associated equipment shall be set to ensure that automatic calls to different numbers are spaced such that there is not less than 5 seconds between the end of one call attempt and the beginning of another.
- 5 This equipment shall not be set up to make automatic calls to Telecom's 111 Emergency Service.
- 6 This device is equipped with pulse dialing while the Telecom standard is DTMF tone dialing. There is no guarantee that Telecom lines will always continue to support pulse dialing.
- 7 Use of pulse dialing, when this equipment is connected to the same line as other equipment, may give rise to bell tinkle or noise and may also cause a false answer condition. Should such problems occur, the user should NOT contact the telecom Fault Service.
- 8 This equipment may not provide for the effective hand-over of a call to another device connected to the same line.
- 9 Under power failure conditions this appliance may not operate. Please ensure that a separate telephone, not dependent on local power, is available for emergency use.

Laser compliance statement

The CD or DVD drive used with this computer is a laser product.
The CD or DVD drive's classification label (shown below) is located on the drive.

CLASS 1 LASER PRODUCT

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

APPAREIL A LASER DE CLASSE 1 PRODUIT

LASERATTENTION: RADIATION DU FAISCEAU LASER INVISIBLE EN CAS D'OUVERTURE. EVITER TOUTE EXPOSITION AUX RAYONS.

LUOKAN 1 LASERLAITE LASER KLASSE 1

VORSICHT: UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHLL AUSSETZEN

PRODUCTO LÁSER DE LA CLASE I

ADVERTENCIA: RADIACIÓN LÁSER INVISIBLE AL SER ABIERTO. EVITE EXPONERSE A LOS RAYOS.

ADVARSEL: LASERSTRÅLING VEDÅBNING SE IKKE IND I STRÅLEN.

VARO! LAVATTAESSA OLET ALTITINA LASERSÄTEILYLLE.

VARNING: LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD ÄLÅ TUIJOTA SÄTTEESEENSTIRRA EJ IN I STRÅLEN

VARNING: LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNADSTIRRA EJ IN I STRÅLEN

ADVARSEL: LASERSTRÅLING NÄR DEKSEL ÅPNESSTIRR IKKE INN I STRÅLEN

LCD pixel statement

The LCD unit is produced with high-precision manufacturing techniques. Nevertheless, some pixels may occasionally misfire or appear as black or red dots. This has no effect on the recorded image and does not constitute a malfunction.

Macrovision copyright protection notice

"U.S Patent Nos. 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132."

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Radio device regulatory notice



Note: Below regulatory information is for models with wireless LAN and/or Bluetooth only.

General

This product complies with the radio frequency and safety standards of any country or region in which it has been approved for wireless use. Depending on configurations, this product may or may not contain wireless radio devices (such as wireless LAN and/or Bluetooth modules). Below information is for products with such devices.

European Union (EU)

R&TTE Directive 1999/5/EC as attested by conformity with the following harmonized standard:

- **Article 3.1(a) Health and Safety**
 - EN60950-1:2001
 - EN50371:2002
 - EN50360:2002 (Applied to models with 3G function)
- **Article 3.1(b) EMC**
 - EN301 489-1 V1.4.1:2002
 - EN301 489-17 V1.2.1:2002
 - EN301 489-3 V1.4.1:2002 (Applied to models with 27MHz wireless mouse/keyboard)
 - EN301 489-7 V1.2.1:2002 (Applied to models with 3G function)
 - EN301 489-24 V1.2.1:2002 (Applied to models with 3G function)
- **Article 3.2 Spectrum Usages**
 - EN300 328 V1.5.1:2004
 - EN301 893 V1.2.3:2003
 - EN300 220-1 V1.3.1:2000 (Applied to models with 27MHz wireless mouse/keyboard)
 - EN300 220-3 V1.1.1:2000 (Applied to models with 27MHz

wireless mouse/keyboard)

- EN301 511 V9.0.2:2003 (Applied to models with 3G function)
- EN301 908-1 V2.2.1:2003 (Applied to models with 3G function).
- EN301 908-2 V2.2.1:2003 (Applied to models with 3G function).



List of applicable countries

EU member states as of May 2004 are: Belgium, Denmark, Germany, Greece, Spain, France, Ireland, Italy, Luxembourg, the Netherlands, Austria, Portugal, Finland, Sweden, United Kingdom, Estonia, Latvia, Lithuania, Poland, Hungary, Czech Republic, Slovak Republic, Slovenia, Cyprus and Malta. Usage allowed in the countries of European Union, as well as Norway, Switzerland, Iceland and Liechtenstein. This device must be used in strict accordance with the regulations and constraints in the country of use. For further information, please contact local office in the country of use.

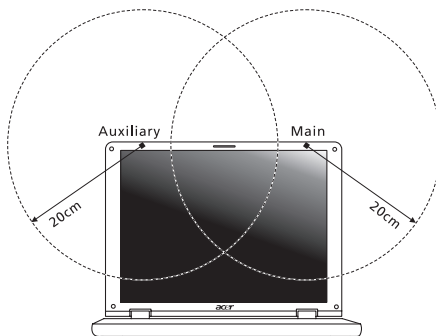
The FCC RF safety requirement

The radiated output power of the wireless LAN Mini PCI Card and Bluetooth card is far below the FCC radio frequency exposure limits. Nevertheless, the notebook PC series shall be used in such a manner that the potential for human contact during normal operation is minimized as follows:

- 1 Users are requested to follow the RF safety instructions on wireless option devices that are included in the user's manual of each RF option device.



Caution: To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm (8 inches) must be maintained between the antenna for the integrated wireless LAN Mini PCI Card built in to the screen section and all persons.



Note: The Acer wireless Mini PCI adapter implements a transmission diversity function. The function does not emit radio frequencies simultaneously from both antennas. One of the antennas is selected automatically or manually (by users) to ensure good quality radiocommunication.

- 2 This device is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.
- 3 High power radar are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device.
- 4 An improper installation or unauthorized use may cause harmful interference to radio communications. Also any tampering of the internal antenna will void the FCC certification and your warranty.

Canada — Low-power license-exempt radio communication devices (RSS-210)

- a Common information
Operation is subject to the following two conditions:
 1. This device may not cause interference, and
 2. This device must accept any interference, including interference that may cause undesired operation of the device.
 - b Operation in 2.4 GHz band
To prevent radio interference to the licensed service, this device is intended to be operated indoors and installation outdoors is subject to licensing.
 - c Operation in 5 GHz band
- The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel Mobile Satellite systems.
 - High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LELAN (Licence-Exempt Local Area Network) devices.

Federal Communications Commission Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

The following local manufacturer/importer is responsible for this declaration:

Product name:	Notebook PC
Model number:	LB1
Machine type:	TravelMate 6460/6410
SKU number:	TravelMate 646xxx/641xxx ("x" = 0 - 9, a - z, or A - Z)
Name of responsible party:	Acer America Corporation
Address of responsible party:	2641 Orchard Parkway San Jose, CA 95134 USA
Contact person:	Mr. Young Kim
Tel:	408-922-2909
Fax:	408-922-2606

Declaration of Conformity for CE Marking



Declaration of Conformity

We,

Acer Computer (Shanghai) Limited

3F, No. 168 Xizang medium road, Huangpu District,
Shanghai, China

Contact Person: Mr. Easy Lai

Tel: 886-2-8691-3089 Fax: 886-2-8691-3000

E-mail: easy_lai@acer.com.tw

Hereby declare that:

Product: Personal Computer

Trade Name: Acer

Model Number: LB1

Machine Type: TravelMate 6460/6410

SKU Number: TravelMate 646xxx/641xxx("x" = 0~9, a ~ z, or A ~ Z)

Is compliant with the essential requirements and other relevant provisions of the following EC directives, and that all the necessary steps have been taken and are in force to assure that production units of the same product will continue comply with the requirements.

EMC Directive 89/336/EEC as attested by conformity with the following harmonized standards:

- EN55022:1998 + A1:2000 + A2:2003, AS/NZS CISPR22:2002, Class B
- EN55024:1998 + A1:2001 + A2:2003
- EN61000-3-2:2000, Class D
- EN61000-3-3:1995 + A1:2001
- EN55013:2001 + A1:2003 (applied to models with TV function)
- EN55020:2002 + A1:2003 (applied to models with TV function)

Low Voltage Directive 73/23/EEC as attested by conformity with the following harmonized standard:

- **EN60950-1:2001**
- **EN60065:2002 (applied to models with TV function)**

Council Decision 98/482/EC (CTR21) for pan- European single terminal connection to the Public Switched Telephone Network (PSTN).

RoHS Directive 2002/95/EC on the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment

LCD panel ergonomic specifications

Design viewing distance	500 mm
Design inclination angle	0.0°
Design azimuth angle	90.0°
Viewing direction range class	Class IV
Screen tilt angle	85.0°
Design screen illuminance	<ul style="list-style-type: none"> • Illuminance level: [250 + (250cosα)] lx where $\alpha = 85^\circ$ • Color: Source D65
Reflection class of LCD panel (positive and negative polarity)	<ul style="list-style-type: none"> • Ordinary LCD: Class I • Protective or Acer CrystalBrite™ LCD: Class III
Image polarity	Both
Reference white:	• Yn
Pre-setting of luminance and color temperature @ 6500K (tested under BM7)	<ul style="list-style-type: none"> • u'n • v'n
Pixel fault class	Class II

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